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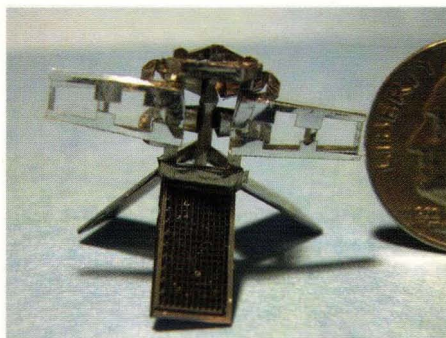
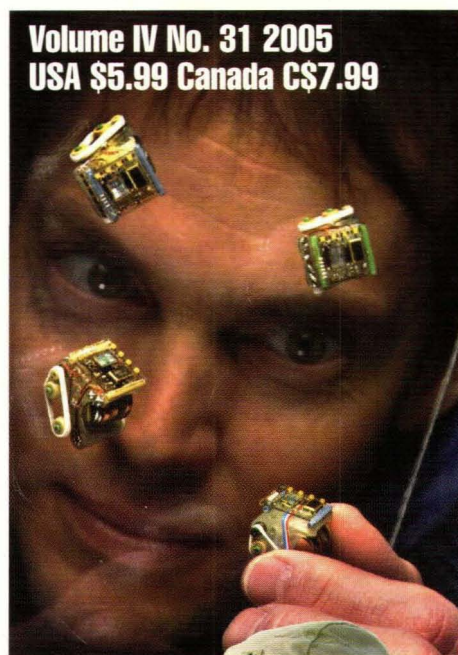
Outsmarting Bin-Laden's
MINISTRY OF FEAR

Secret
Spy Projects
Revolutionizing
Espionage

America's Floating Bombs

CIA's
**GUANTANAMO
BAY EXPRESS**

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NORTH AMERICA'S FAVOURITE INTELLIGENCE MAGAZINE

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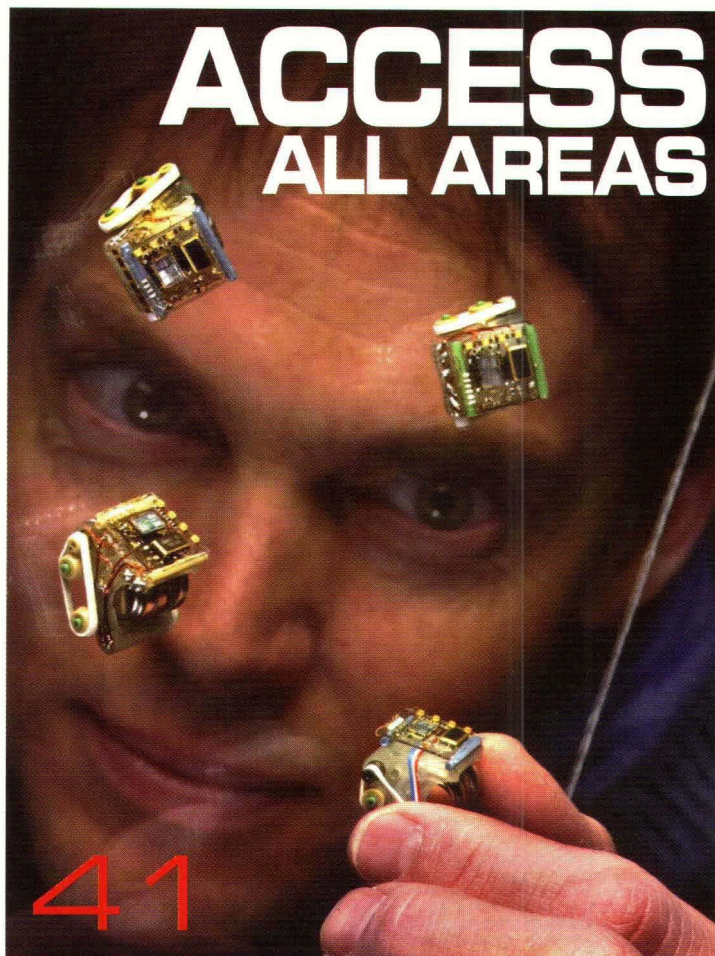




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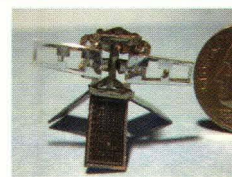
NEXT STOP IRAN?

SECRET CIA MISSIONS IN IRAN, MOSSAD CLAIMS THAT TEHRAN WILL HAVE BOMB IN TWO YEARS, WORSENING RHETORIC AND THREATS OF RETALIATION - HAS A SECRET WAR WITH IRAN ALREADY BEGUN?



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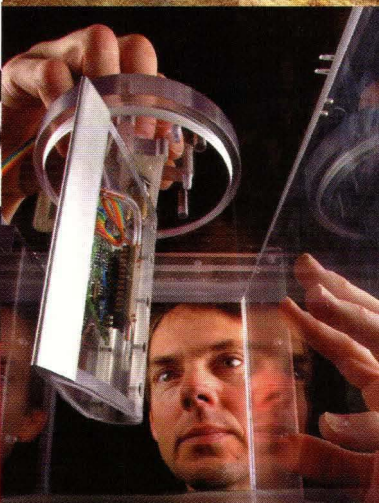
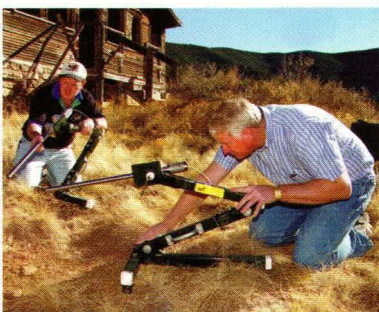
REINVENTING THE SPYING GAME WITH MICRO ESPIONAGE AND AMERICA'S ASTONISHING FUTURISTIC PROJECTS THAT ARE NO LONGER SCIENCE FICTION BUT SCIENCE FACT



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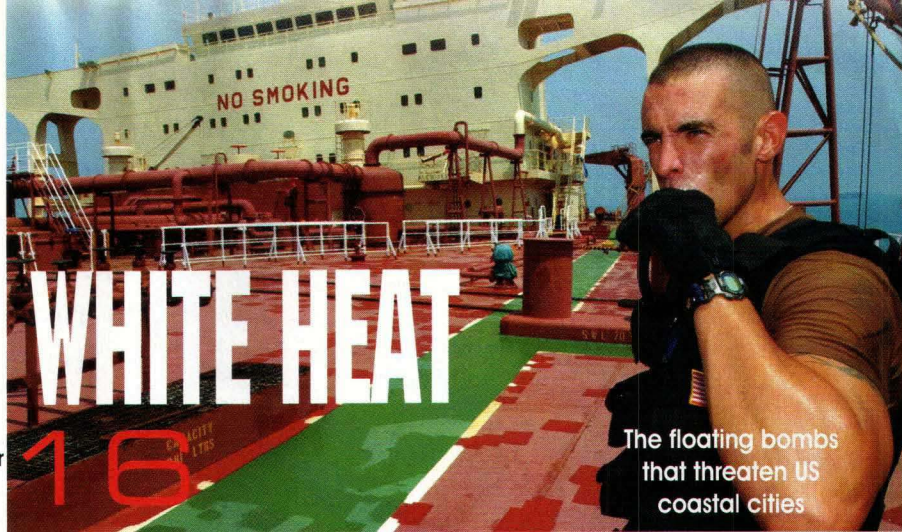
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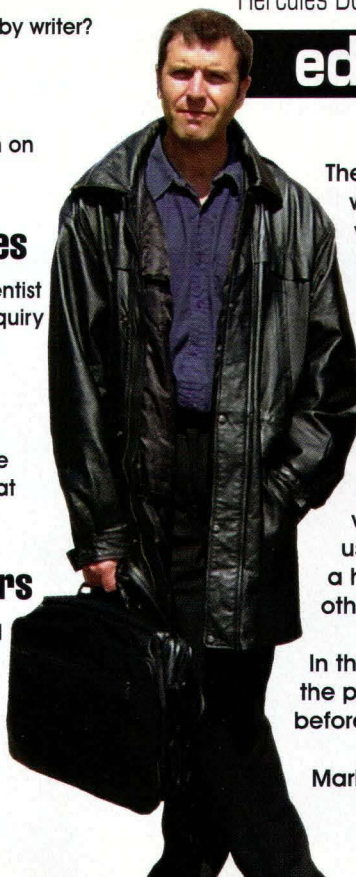


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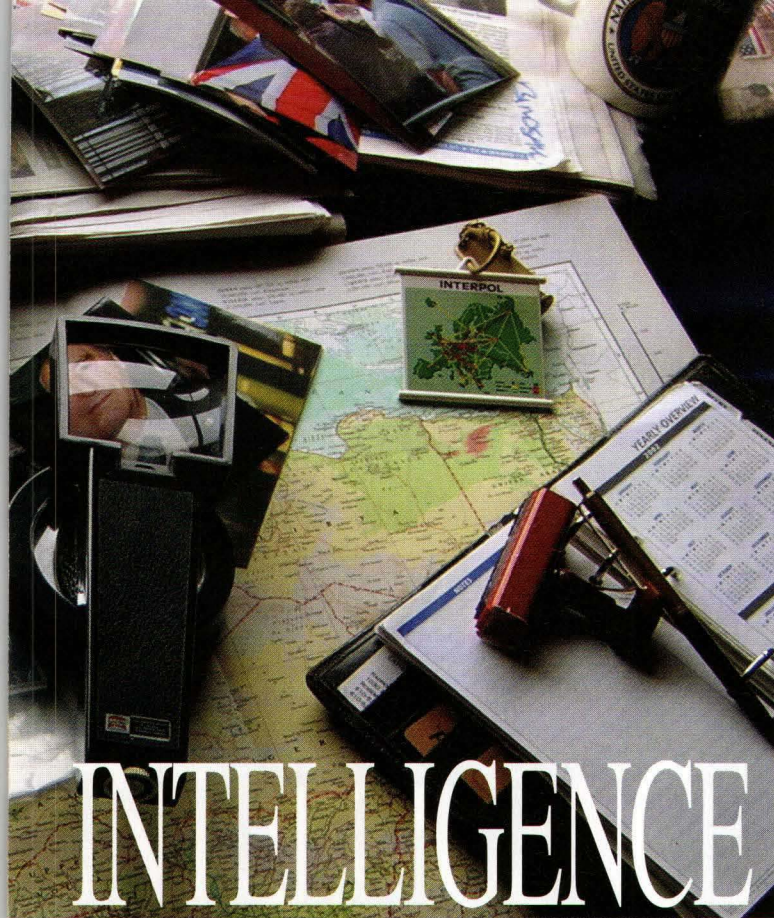


There are a host of remarkable projects underway that will change the way intelligence is gathered in future years. Many of the devices and systems being considered are so small that counterespionage officials are concerned. Those involved with terrorism and crime should be even more worried.

The science will undoubtedly be applied to espionage, but the heads of the world's intelligence services have other targets in sight. The so-called 'war on terror' has dragged hundreds of thousands of military personnel into Iraq and beyond. It is no wonder that the Pentagon is seeking to adapt and use some amazing devices now being assembled by a host of defence contract companies. In addition, other systems will help protect the public.

In this edition of Eye Spy, we take a peek at just some of the projects that will eclipse anything that has been built before...

Mark Ian Birdsall - Editor



As terrorists continue to examine covert methods to wage war, science and defence contract companies have joined together to design a whole new range of smart anti-terrorist devices that are intended to tackle the threat at source...



The incident involving Richard Reid - the shoe bomber prompted an array of fast-tracked anti-terrorist projects

INTELLIGENCE

Outsmarting the MINIS

A new Homeland Security directive was quietly issued to airport officials concerning the possibility that al-Qaida agents may adapt or use two particular types of watches to detonate or light an explosive device on board airliners.

THE WATCH WARNING

The first is an altimeter which measures altitude and would

be useful if an onboard device was detonated as the aircraft reached a certain height. The second watch can be adapted to carry a hidden cigarette lighter. This has been mentioned in relation to the possibility that it could be secretly used to ignite a fuse in a device similar to that worn by Richard Reid, the infamous 'shoe bomber' who tried to blow up a trans-Atlantic flight from Paris to Miami. In this case, explosives had been

carefully inserted into the soles of his boots. Security officials may now invite passengers wearing such watches to allow a more detailed inspection.

The warning comes as intelligence officials in the United States embark upon a project that will see covert agents randomly testing airport security across the country. Part of the programme is to examine new methods al-Qaida has discussed on

smuggling bombs on board airliners. With internal and external airline security improving, the terror group is seeking to destroy aircraft, rather than hijack them.

THE PAN DISRUPTER

Richard Reid's shoes were surgically disabled by bomb specialists using an advanced bomb squad tool originally developed at Sandia National Laboratories, a US defence contract company.

Reid was arrested when the airliner touched down in Boston. Instead of simply blowing up the shoes, intelligence officials were anxious to

Sandia National Laboratories bomb-disablement expert Chris Cherry shows a replica of Richard Reid's shoe bomb to members of the Albuquerque news media during a news conference.



PHOTO COURTESY RANDY MONTOYA

see if the bomb could provide more clues, including its maker and the type of explosive within. Massachusetts State Police bomb squad members Sgt. Dave Thompson and Sgt. Ed Anderson disabled Reid's shoe bombs with assistance from the FBI on using a Percussion-Actuated Nonelectric Disrupter - PAN for short. Reid's shoe bombs were disarmed and their inner workings revealed without detonating them.

Details of how the PAN Disrupter works are top secret, but the device precisely interrupts a bomb's internal mechanism quickly, before the bomb can detonate, and remotely, with human bomb specialists a safe distance away. "This is another example of our national labs' technological wizardry being put to good



PHOTO COURTESY RANDY MONTOYA

Sandia National Laboratories bomb-disablement experts Chris Cherry (right) and Rod Owenby demonstrate use of two PAN Disrupters on a mock bomb

RY OF FEAR

use to support America's security," said Energy Secretary Spencer Abraham.

Sandia bomb-disablement expert Chris Cherry and a team of Sandia researchers developed the PAN Disrupter in the early 1990s as a way to keep bomb technicians safe and disable bombs nonexplosively so valuable evidence can be retained. The PAN is one of several advanced bomb-disablement tools developed at Sandia.

Since 1995, PAN has become the primary tool used by bomb squads nationwide to disable conventional, handmade-type bombs remotely.

Sandia has helped train members of the world's most advanced bomb squads since 1994 in a series of training conferences called Operation Albuquerque (1994, 1995, and 1997), Operation Riverside (1999), and Operation America (an ongoing series of regional

workshops at various locations in the United States sponsored by the National Institute of Justice).

In April 1996, Cherry and his team were called to Montana by the FBI to disarm a bomb found in a remote cabin following the arrest of Theodore Kaczynski, America's infamous *Unabomber*. The PAN Disrupter was used to disable what is now known as the Unabomber's Device #17.

The PAN also was instrumental in safely disabling numerous suspect bombs in Atlanta during the 1996 Summer Olympic Games and was deployed by bomb squads in Salt Lake City during the 2002 Winter Olympic Games.

Sandia are currently developing another bomb-disablement tool called the Black Box. It too is classified Top Secret.

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PHOTO COURTESY RANDY MONTOYA

A bomb technician aims a PAN Disrupter at a suspect bomb. The PAN, originally developed at Sandia National Laboratories, has become the primary tool used by bomb squads nationwide to disable conventional, handmade-type bombs remotely



MICHAEL SMITH

WORLD E

claims that psychological warfare experts from the wartime Special Operations Executive (SOE) conned Hess into coming to Britain so they could use him as part of a propaganda campaign that never took place. The response from academics has always been disparaging. They regard the conspiracy theories as patent nonsense and, perhaps in response, invariably dismiss any claim of MI6 involvement in the affair.

When I first wrote my biography of Frank Foley in the late 1990s, I was

The Truth About R

The diary and research that has revealed a vito

On 10 May 1941, Adolf Hitler's deputy Rudolf Hess flew to Britain in a Messerschmitt-110 intent on making contact with the Duke of Hamilton, who he believed would be able to help him mediate a peace deal. Hess was kept in Britain until the end of the war, when he was put on trial at Nuremburg and sentenced to life imprisonment. He was held in Spandau prison and hanged himself in 1987 at the age of 93. But more than sixty years after his bizarre flight, it continues to cause controversy.

The failure of successive British governments to tell the whole story behind Hess's arrival in Britain has led to series of conspiracy theories springing up, all of them centred around an alleged plot by Britain's intelligence services to lure him to the United Kingdom.

No single incident in this country's history has given birth to so many different myths and conspiracy theories. They range from suggestions that the man in Spandau was not Hess, who it is alleged died in the same 1942 air crash that killed the Duke of Kent, to

determined to prevent him becoming embroiled in the various controversies. Foley had been the MI6 station head in Berlin from 1921 to 1939 and, according to leaders of Berlin's pre-war Jewish community, had used his position to help "tens of thousands of Jews" to escape the Holocaust. At the time, I believed he had one, and only one, role in the Hess story. It was Foley, as the leading German expert in MI6, who was in charge of the year-long debriefing of the deputy Führer. This much is known from Foreign Office files released to the National Archives some years ago.





Winston Churchill, Britain's wartime Prime Minister, was convinced that Hess would have stories to tell. He was to be treated as a defector. He was Hitler's

deputy. There must be a great deal of useful intelligence to be had from him. In fact, the debriefing was a largely wasted effort. Hess knew astonishingly little and, to make matters worse, Foley



Foley on verandah of Berlin apartment with wife Kay and dog Jonny

Adolf Hess

clue in the Hess affair...



Oskar Schindler

swiftly realised that he was insane. Foley's most important story, the work he had done in Germany saving thousands of Jews from otherwise certain death, had never been told. My focus was on

trying to put right that omission, any attempt to delve too far into the controversies surrounding Hess would only detract from Foley's many achievements.

But by the time I came to update the book for another publisher, many new facts about Foley's life had come to light. The decision by Yad Vashem, the Israeli Holocaust Centre, to name him as Righteous Among Nations, the award given to Oskar Schindler, Raoul Wallenberg and many more, all of whom had risked their lives to save someone from the Holocaust, brought





Intelligence Briefings

Iran 'disguises' IBM research

A **CLASSIFIED** US intelligence report has revealed that Iran secretly acquired ballistic missile technology from several countries in 2004. The CIA discovered that several shipments of IBM-related parts were sent to Iran from North Korea, China and areas of the former Soviet Union. The report concluded that Iran appeared to be improving its current missiles projects, though it was also pursuing longer-range ballistic missiles.

Analysts at the agency have apparently investigated at least one intercepted shipment and believe the Iranians are disguising their IBM research on a space-launched booster missile. A White House official noted the result could be a projectile that could hit the United States or Europe and carry nuclear, chemical and biological weapons. An Iranian official at the United Nations said his country was "not developing a missile with a range beyond 1,250 miles."



Captured US Serviceman Was Doll

A **WEBSITE LINKED** to al-Qaida announced that a US soldier had been captured by terrorists in Iraq. A photograph posted on the site showed a figure in military fatigues and a gun pointed to his head. The soldier was sat down and his hands were placed behind his back. US officials in Iraq immediately announced that none of its troops



were reported missing, and soon the image was being more thoroughly researched. Then an American toy manufacturer who saw the image telephoned the authorities in the United States to say that the soldier bore a remarkable resemblance to the African-American "Cody" action figure.

"It is our doll... it definitely looks like it to me," said Liam Cusack, of toy manufacturer Dragon Models USA. "Everything this guy is wearing is exactly what comes with our figure." The soldier was wearing camouflage chest protection, knee shields and a sand-coloured uniform with other gadgets such as a unique belt. Further investigation revealed that the doll was ordered by the US military for sale to army families in neighbouring Kuwait.

List of 240,000 Polish Spies Published

A **POLISH JOURNALIST** has distributed a list of 240,000 names from the records of the communist-era's intelligence and security services. Some politicians have cause for concern, as their links to the former communist spy apparatus have become a major election issue in this year's parliamentary and presidential polls. By law, all Polish politicians have to reveal any links to communist special services. If they lie they face a ban from public office.

Bronislaw Wildstein, a conservative journalist at heavyweight daily Rzeczpospolita, said he had copied the list of names - the largest inventory to be published from the database of a state institute set up to probe past political crimes. He then distributed it to colleagues.

Not all agree with Wildstein's actions. "These documents have to be reread and verified, but before that happened the list appeared," Boguslaw Sonik, member of European parliament from the centre-right Civic Platform, said. "I fear a moment of injustice, for some a moment of revenge." Intelligence analysts believe publication of the list is dangerous. The list is not complete and did not make clear who was an operative, a potential collaborator, a victim or just a person noted in the communist era files. Some innocent victims will surely be branded as spies. Nevertheless, this has not stopped millions of Poles examining the list to see if they recognise anyone!



The dates were intriguing. Seven months before Hess flew to Britain, in September 1940, one of his close advisers, Albrecht Haushofer, the leading expert on Great Britain in the German Foreign Office, had written to the Duke of Hamilton at Hess's request, attempting to set up a meeting in Lisbon...

Rolf Hess

to light other cases of people Foley had helped. New documents had been released to Britain's National Archives and I had been privileged to be allowed to see a number of photographs and documents kept by his wife's family. It was one of these that was to change my view of Foley's involvement in the Hess mission and led to the uncovering of the truth about Rudolf Hess.

For seven years, from January 1936 to December 1942, Foley's wife Kay kept a diary. I was unaware of this when I wrote the original book so when the family told me of its existence, I was eager to see it, believing that many more mysteries would be uncovered. Not unnaturally for a diary covering such a long period, the entries were all frustratingly short. Foley is only ever referred to as F (for Frank) and although records of his official activity appear in the diary, they are vague. A number of entries record that F went out in the early evening and did not return until around 6.30am. This is the sort of activity that would make most wives highly suspicious but Kay knew that as MI6 head of station, Foley had large numbers of people to meet and the nightclubs of pre-war Berlin, so well portrayed in Christopher Isherwood's *Goodbye to Berlin*, provided an ideal backdrop for these clandestine meetings. If she knew precisely who he was meeting, this was not information that she would have recorded in an unclassified diary.

I pored over the pages of the diary, looking for further clues as to what Foley had done during that period. It was, to be honest, a largely unproductive effort. A few entries added a minor piece of information to what I already knew. One

gave a precise date for a wartime change of job, another details of when and where Foley landed in Britain after the 1940 fall of France, adding interesting new detail of what he had done before returning home. But the most puzzling entries by far concerned a visit to Lisbon that Foley made in early 1941. He flew out of

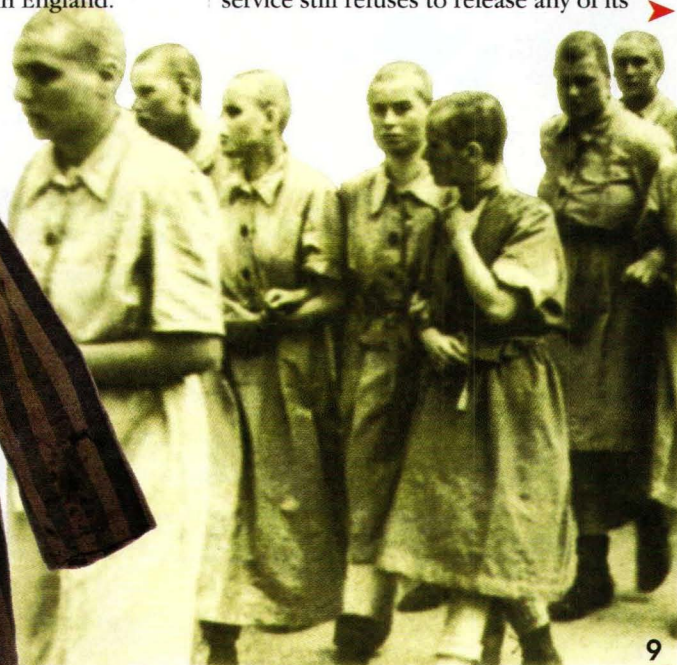


Frank Foley MI6 station head in Berlin from 1921 to 1939 helped thousands of Jews escape the Holocaust

Whitchurch aerodrome near Bristol on Friday 17 January 1941, spending two weeks in Lisbon and arriving back in England on Saturday 1 February 1941 when the diary records that Kay received a telegram from F reassuring her that he had arrived safely back in England.

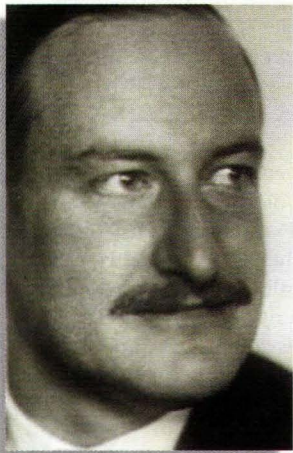
The dates were intriguing. Seven months before Hess flew to Britain, in September 1940, one of his close advisers, Albrecht Haushofer, the leading expert on Great Britain in the German Foreign Office, had written to the Duke of Hamilton at Hess's request, attempting to set up a meeting in Lisbon. The letter, sent via an intermediary, an old family friend of the Haushofers, was intercepted and passed to MI5, who initially suspected Hamilton and the intermediary might be German spies and launched an investigation. By November of 1940, they had realised this was not the case and spent some months considering whether or not to send Hamilton, a serving RAF officer, to Lisbon to meet Haushofer. The plan was eventually discarded as too dangerous but the letter's very existence has always fuelled the allegation at the heart of the conspiracy theories - that British intelligence lured Hess to Britain. I had never bought into the conspiracy theories, but some of what they said made sense and the rejection by the academic historians of any MI6 role seemed to me to be rash. If MI6 was aware that someone so close to power had put out feelers to the British establishment, it would be bound to consider meeting them, if only to gather intelligence as to the thinking behind the approach. The dates for Foley's visit to Lisbon were midway between the letter's interception and Hess's arrival in Britain. They looked right.

So I approached MI6 to try to find out what Foley was doing in Lisbon. Although a number of MI6 documents have made their way into the National Archives at Kew, they have all been handed over by other government departments. The service still refuses to release any of its



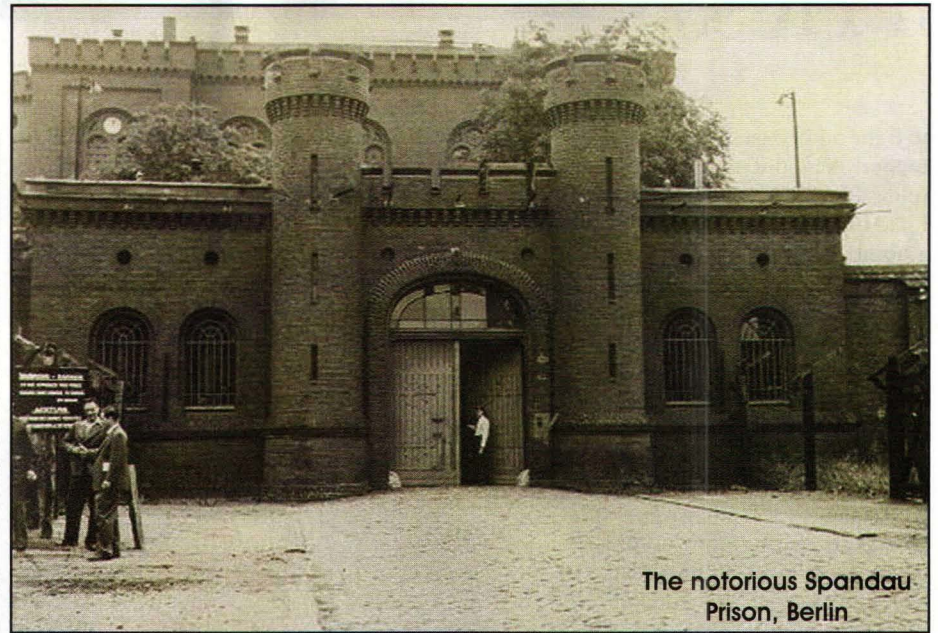
own archives, but it does retain a number of "old boys" as historians to look after them. Their immediate response was that Foley must have gone to Lisbon to look at a potential double-cross operation, a reference to the highly successful system whereby the vast majority of Nazi spies sent to Britain were "turned" by British intelligence to provide false information to the Germans. But although Foley did eventually take over as head of the MI6 Double-Cross section, this did not happen until 15 months later (the diary fixes the date as 16 April 1942). The MI6 historian was apparently a trifle put out when I rejected his suggestion for the reason behind the visit. But he nevertheless went back and checked the files. What he found was the answer to the mystery that has puzzled historians for more than half a century.

Much of the MI6 archive was shredded to save space when the service moved from its wartime offices in Broadway in the early 1950s. But in the files, there was a single, more recent reference to Hess which spoke intriguingly of MI6 plans for "a sting operation" in response to the Haushofer letter. The MI6 historians also have access to oral histories from former officers and, where they are still alive, the officers themselves, and by delving into this 'folk memory', he discovered that



Albrecht Haushofer

Foley had flown to Lisbon to see whether it was possible to use a meeting with Haushofer to set up a sting operation. He was accompanied by his secretary Margaret Reid, who



The notorious Spandau Prison, Berlin

was there to provide cover, presumably of a middle-aged gentleman and his "niece" spending two weeks away from the austerity of wartime Britain.

There is frustratingly no information on what Foley and Reid actually did in Lisbon. Quite how they tested the feasibility of the sting operation remains the one remaining real mystery in the Hess story. But the only effective way of checking it out would have been to respond to the letter and to arrange to meet either Haushofer or another intermediary in the Portuguese capital. It is worth pointing out that Foley almost certainly knew Haushofer already. As the German Foreign Office's main expert on Great Britain, he would have enjoyed frequent contacts with the British representatives in Berlin.

In an account written for Hitler after Hess flew to Britain, Haushofer said: "I did not learn whether the letter reached the addressee. The possibilities of it having being lost en route from Lisbon to England are not small after all." But he could scarcely have admitted having had contacts with the British secret service. Certainly, once Hess had flown to Britain, Haushofer was regarded with a great deal

of suspicion by the Sicherheitsdienst, the Nazi party's security service. It interrogated him and placed his flat and office under surveillance.

At any event, whatever Foley and Reid did in Lisbon, it took a full two weeks. They arrived back in England with bad news. Foley had decided that the sting was too risky, and understandably Sir Stewart Menzies, the Chief of MI6, took the advice of his top expert on Germany, frustrating Hess in his attempts to put out peace feelers to the British aristocracy. As with most of the events that become the subject of conspiracy theories, the truth about Rudolf Hess has turned out to be much more mundane. Haushofer had always warned Hess that the attempt to go through Hamilton was likely to fail and that it might be necessary to send "a neutral intermediary" to Britain. When it did fail, the deputy Führer clearly decided that he could not afford to leave such an important task to someone else and simply came himself.

Foley: The Spy Who Saved 10,000 Jews, by Michael Smith, is published by Politicos, price £8.99

stop... if you really want to know what
is going on in the world of intelligence
and espionage, there is only one
choice... eye spy magazine
see page 56 for further details... end



The name Victor Makarov, 49, may not be as familiar to readers as other spies, but the former KGB officer most certainly risked his life for Britain's Secret Intelligence Service. His days of spying for MI6 have long since gone, and only his former paymasters and the KGB, who he betrayed, will ever know the extent of his spying. When he finally made it to Britain, Makarov was a happy man, but the grass is not always greener on the other side, as he will tell you today. Makarov has become one of a number of growing former agents who believe their former controllers have broken promises.

Today, Makarov resides in the North of England, he says it is because it reminds him of Russia. The real reason is probably that the cost of living is much cheaper than in London or the big cities. His story is as controversial as it is fascinating, and could well have been lifted from any Cold War spy thriller. In 1987 he was sentenced to a 10-year term as a 'political prisoner' in the notorious Perm-35 labour camp situated in the Arctic Circle. He was suspected of spying for MI6, but the court could never prove it or his punishment would have been much worse. Released in 1992 under an amnesty initiated by President Boris Yeltsin, he was smuggled back to Britain by MI6. Then, in December 2004, following a long-standing financial dispute with the British Govern-

ment, he began an indefinite hunger strike and has pledged to recreate his prison camp conditions opposite the gates of Downing Street until the authorities help him.

SECRETS, LOVE, ESPIONAGE AND MONEY

Born in 1955 Makarov graduated from the KGB's academy along with another junior KGB officer - Vladimir Putin. He soon found work inside the KGB's 16th Directorate decoding intercepted diplomatic signals bound for the West. However, he became disillusioned with the USSR and began learning English. He fell in love with his English teacher, Olga Bireva, a translator. The couple spoke about creating a new life in Britain and



The Spies Left Out in the Cold

Meet the former spies who believe they have been betrayed



Makarov graduated from the KGB's academy with KGB officer - Vladimir Putin

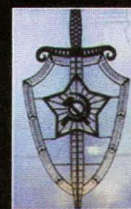
started discussing ways to get out of Russia. Ms Bireva, an Anglophile, had a number of contacts with the UK and decided to approach a

trusted businessman for help. Quietly they discussed the matter, but unbeknown to the Russian couple, the businessman worked for MI6. Recognising the espionage possibilities, MI6 asked Makarov to remain in Russia and spy for Britain. In return, they would work out a way to get the couple out of the country. For two years he filtered crucial information to his handler about how the KGB was intercepting diplomatic signals. Throughout this period he continued to ask MI6 to get him out of Moscow. However, the KGB grew suspicious and arrested him for treason in 1987. He was interrogated for nearly six months but continually denied the spying allegations. Nevertheless, he was sent to Perm 35. As he served his sentence, the Soviet Union crumbled and he was released in 1992. He returned to Moscow and immediately sought out his British contacts.

MI6 agreed to smuggle him out of the country, though with confusion reigning in Russia, it was likely the new government would not have stood in his way. A vehicle drove Makarov to Riga and eventually to Helsinki where he boarded a plane for London. When he arrived in the UK, he enquired about Ms Bireva. She had apparently disappeared shortly after Makarov was arrested for spying. No information has ever been forthcoming about her fate, though Makarov believes that British Intelligence know the truth.

After arriving in London, Makarov was passed to MI5. He had been told that he would receive help to maintain a decent standard of living. He claims this never happened. MI5 found him a small rented apartment and he was given a British passport along with £12,000 (\$23,000). He then had to allegedly fend for himself.

In 2001, depressed and living on benefit and a small disability allowance, he began legal action against the Home Office for alleged 'breach of its duty of care'. He received £65,000 which helped him buy a small house in Northumberland. What he really wanted was a 'defector's pension', similar to those issued to other spies such as Mikhail Butkov. He was awarded an initial payment of £100,000 and reportedly receives an annual pension of £14,000.



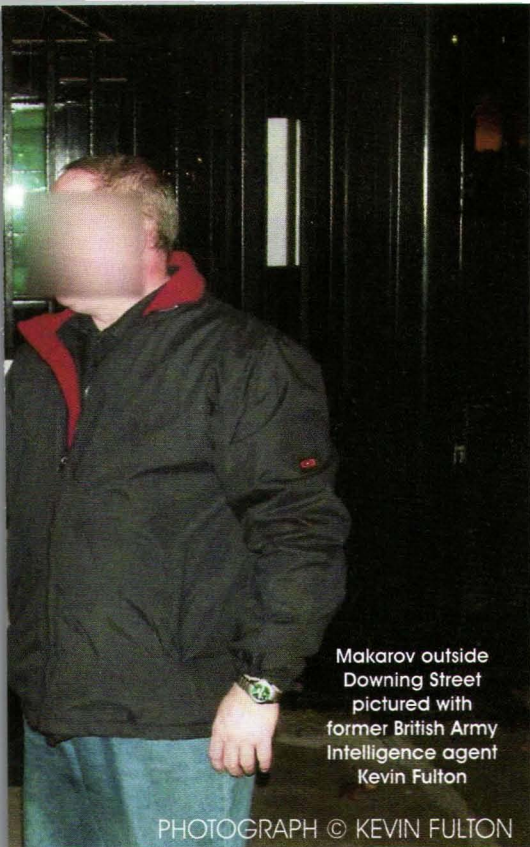
Makarov also believes his life is also at risk from Russia agents and wants a new identity. "My life is potentially at risk, because I am a wanted man in Russia. I am afraid



Mikhail Butkov



A police officer searches Makarov during his demonstration



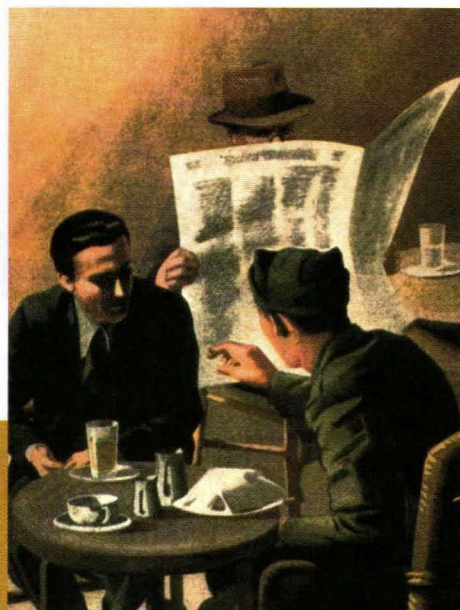
Makarov outside Downing Street pictured with former British Army Intelligence agent Kevin Fulton

PHOTOGRAPH © KEVIN FULTON

my safety is at risk at the moment. Russian Secret Services can be allowed to kill abroad again. At the moment they seem to be banned from doing so, but I am not sure. It's basically very difficult."

Colleagues of Eye Spy spent a little time with Makarov at the gates of Downing Street. The cold nights locked up at Perm 35 seem to have helped him climatise to winter nights in London. "Labour camps have readied me for this type of work," he said. "I have been a political prisoner, and have [a] perspective on hunger strikes already. It is not new to me."

The Home Office refused to comment on the case of Victor Makarov.



© KEVIN FULTON

FORMER CIA SPIES SEEK MORE COMPENSATION

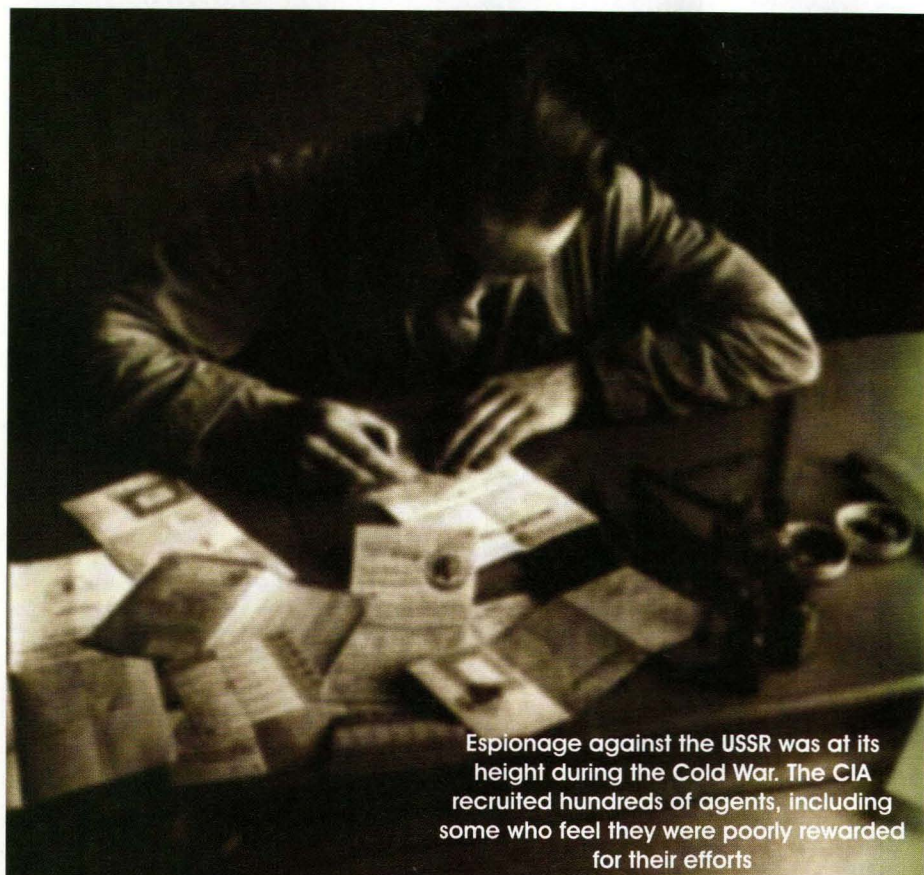
Intelligence agencies around the globe have often been accused of using spies until their usefulness has been exhausted. Like Makarov, some former spies in America claim the CIA has also put them out in the cold.

A recent court case, designated Tenet v. Doe, No. 03-1395, is another example of

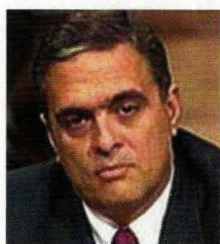
how the treatment of spies is often controversial and a legal minefield. Like MI6, the CIA does not want to set precedents allowing for an avalanche of claims and compensation. Intelligence officials believe that if one former spy manages to beat the government in court, the 'door to greymail' would be open to hundreds of disgruntled defectors. ➤

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Espionage against the USSR was at its height during the Cold War. The CIA recruited hundreds of agents, including some who feel they were poorly rewarded for their efforts



George Tenet

The case of Tenet v. Doe (George Tenet being the former DCI), should in fact read 'Does', because it actually involved 'John and Jane Doe', a pseudonymous

married couple who began spying for the CIA against their Soviet-bloc country. Both former agents say that the CIA has reneged on its promises, though this is denied by the agency.

In the 1980s, the couple agreed to become agents and pass on intelligence in return for a new home and a 'lifetime' income in the United States. Everything seemed fine at first. They were given new identities, a home in Seattle and John Doe was given a job at a local bank. They even received a cash payment. However, things took a turn for the worse when, in 1997, the bank was involved in a merger and John was 'downsized'. Out of work he sought his former CIA paymasters for help and money. He was cited "budget constraints" and no money was paid. But the CIA did wish him well: "We want you to know that this office has great respect for the people we serve and we remain grateful for your past service to this country. We continue to be concerned for

your security and welfare and would hope to be flexible should you require assistance in the future. Again, we wish you and your family every success." The Does didn't like the response and sued, demanding the agency either "pay up" or at least listen to their case.

Experts are unsure if a secret deal to spy for the CIA creates legal rights, or constitutes a covert pact that can never be acknowledged, nor discussed in court.

Little is known of the couple because the CIA and the Does agreed to keep many details secret. However, John Doe worked as a senior diplomat for a Warsaw Pact country. He and Jane Doe approached the agency in another country and offered to defect, bringing with them valuable secrets. A 12-hour meeting at a CIA safe house ensued. Just like Makarov, senior officials at Langley asked that the Does stay put and continue spying. After an unspecified period of time, they would be smuggled out of the USSR to the United States and receive financial security for life.

According to intelligence sources, the Does carried out several "high risk" operations before being smuggled out of the country. Besides a house and other benefits, they were given an annual stipend that started at \$20,000 (£10,000), until John took the bank job in 1987. A deal was struck with the CIA

that his stipend would decrease accordingly as his pay increased. When John lost his job the stipend was at zero.

DISPUTES, DOLLARS AND DESPAIR

There exists hundreds of similar cases across the world, but few ever reach court. Most are settled away from the prying eyes of the media. By the mid-1980s, complaints by defectors and spies were becoming more common. It was then that DCI William J. Casey decided to act. The Jamestown Foundation was established that helped defectors earn money lecturing and writing.

In the 1990s, another former CIA director, James Woolsey (right) was hired as an attorney by former KGB Major Viktor Sheymov.



Sheymov was unhappy about his treatment from the CIA. Both parties negotiated a secret settlement.

Recognising grievances and maintaining the ability to recruit spies is vital. Both the CIA and MI6, know that problems arise when foreign nationals make contact and want to trade secrets for cash or political beliefs or both. Asking a possible defector to remain in his position and spy for an undesignated period of time is important



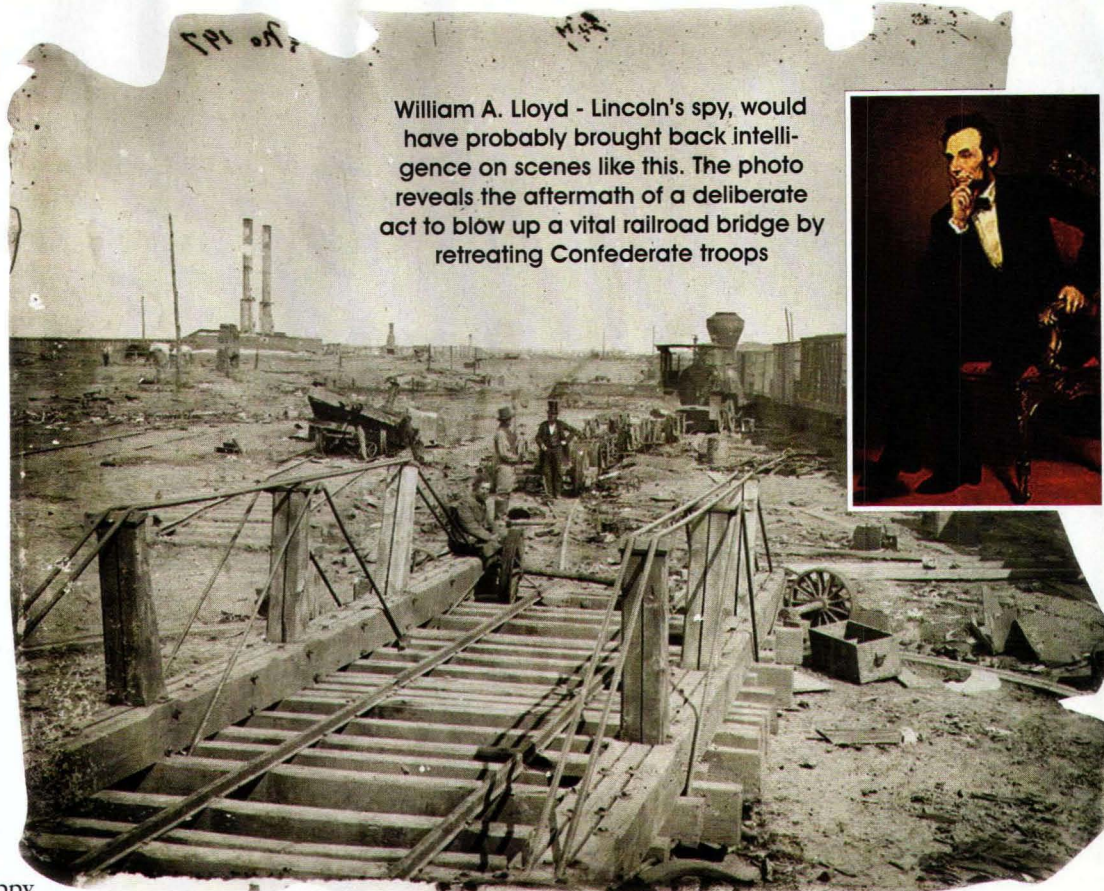
British Army agents Kevin Fulton (left) and Sam Rosenfeld (right)

for a number of reasons. Officials say that the CIA is simply following rules in relation to the recruitment and running of agents. "It's standard operating procedure," said Fritz Ermath. "The CIA must be able to deal with 'walk-ins' to ascertain they are not double agents."

Ermath, should know, he was the CIA's leading analyst on Soviet and East European affairs.

Milt Bearden, former head of the CIA's covert operations in the USSR, also acknowledged the difficulties in post-espionage relations. "One of the toughest jobs in the agency is managing the defector resettlement programme," he said. "You have to keep everyone happy without making everyone a millionaire."

The CIA has continually relied on an 1875 legal case known as *Totten v. United States*, to fend off disgruntled agents. This particular case, a dispute over a contract between President Abraham Lincoln and a Civil War spy, could not be conducted because the "arrangement" was meant to be kept secret. "Both employer and agent must have understood that the lips of the other were to be forever sealed," the court heard. Bringing such a case would violate that agreement.



William A. Lloyd - Lincoln's spy, would have probably brought back intelligence on scenes like this. The photo reveals the aftermath of a deliberate act to blow up a vital railroad bridge by retreating Confederate troops

President Lincoln secretly enlisted William A. Lloyd to spy on the Confederacy.

The president believed Lloyd had the makings of a secret agent. He had a good cover story - he wrote guidebooks about railroads - and had to travel through the South to conduct his research. Lincoln promised him \$200 per month plus expenses, according to *Spies & Spymasters of the Civil War*, by Donald E. Markle.

In that contract, Lloyd agreed to report on Confederate troops and any plans for forts and other battle structures. He was to report only to Lincoln.

Lloyd found himself imprisoned at least twice because of suspicions he was a spy and, at one point, carried his secret contract in his hat. Lincoln paid Lloyd's expenses but not his near \$10,000 salary. Following the assassination of Lincoln, Lloyd died, Enoch Totten, the head of the spy's estate, sued the federal government to claim the salary, hence *Totten v. United States*.

"Changing Totten will hamstring the flexibility the CIA will have to deal with the people it is trying to recruit," said Jeffrey Smith, who was CIA General Counsel under President Bill Clinton.

AGENTS HIJACK INTEL SITE AS DISPUTE WIDENS

It's not just spies who feel aggrieved at their post-operational treatment. In December 2004, two disgruntled former British Army intelligence agents took control of a military website's emailing

facility, after the Intelligence Corps reportedly failed to renew its subscription. Kevin Fulton and Sam Rosenfeld, both worked for the Force Research Unit, a shadowy group established by the Intelligence Corp during the Government's long war with the IRA. The FRU, later renamed the Joint Service Group (JSG), has been linked to murders by Loyalist terrorists.

Eye Spy asked the men why they took such a course of action. Both believe they have been "abandoned" by their military intelligence handlers and that they are in danger from Republican terrorists seeking revenge. The men believe the Ministry of Defence (MOD) should take on a more responsible role and that more should be done to help them financially. As for the "hijacking" of the website, a spokesman for the MOD said: "It looks like as if the email address has been allowed to lapse and has been taken over. We are investigating how this could have happened."

When potential recruits sent emails inquiring about work with the corps (via the website), they received a message back saying: "The site is no longer owned or operated by the Intelligence Corp but by myself a former intelligence agent..."

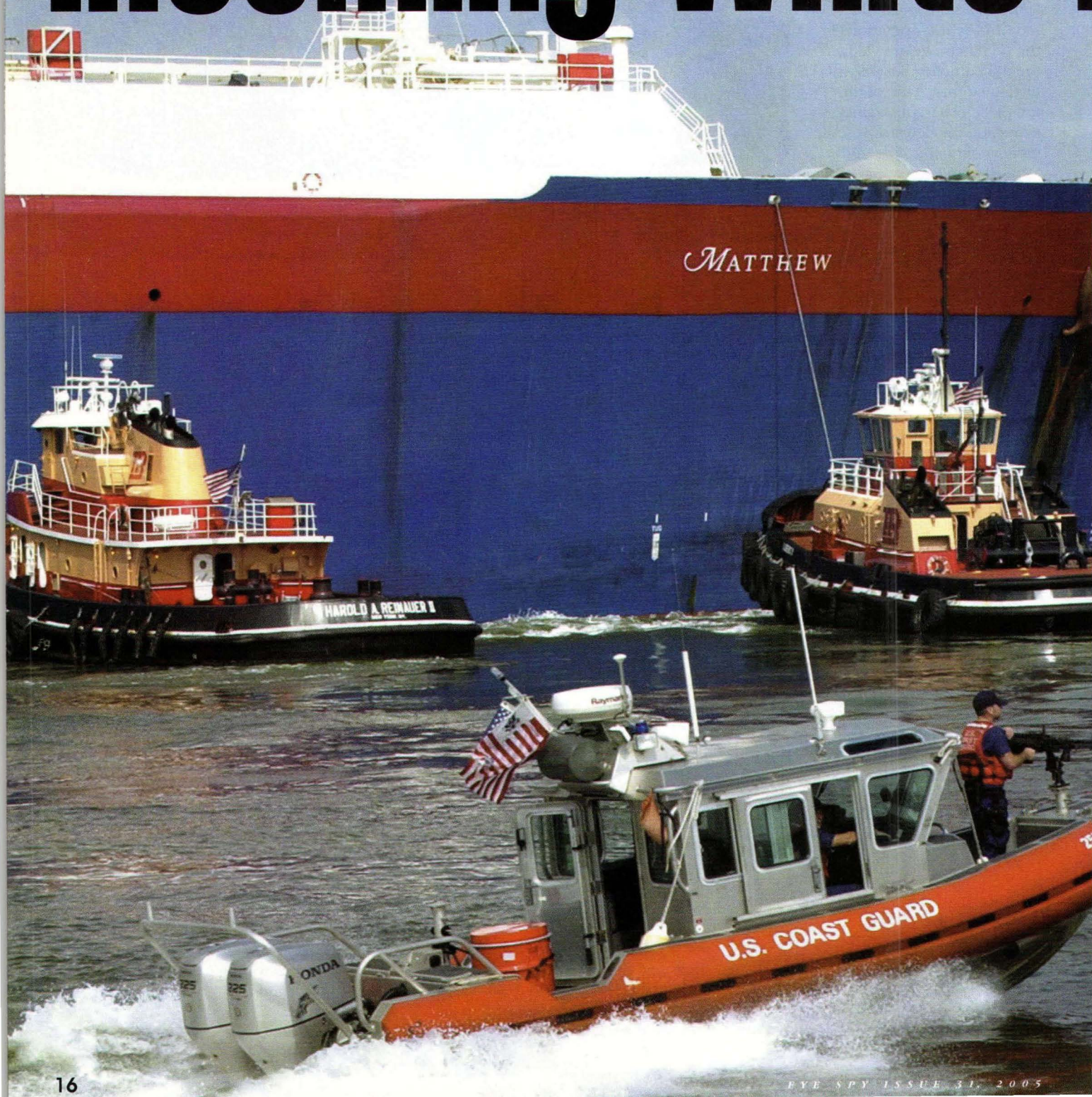
Kevin Fulton said he played a part in the operation to hijack the address, because it was a chance to point out the "shortcomings in the Army's care of its agents." He added: "I was willing to give my life for my country and this is what they do to me."





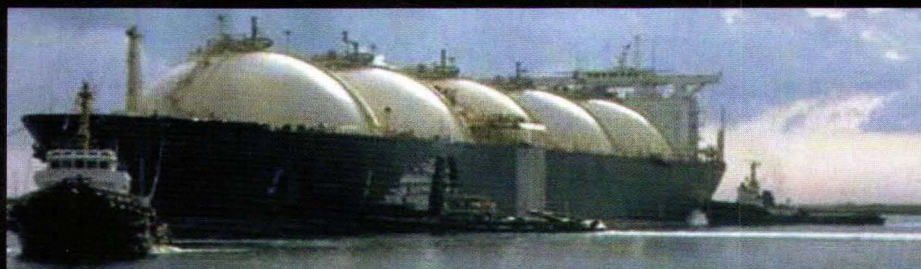
A 25-foot US Coast Guard boat assigned to the Coast Guard Station in Boston is assigned to the Liquefied Natural Gas (LNG) Tanker Matthew in Boston. These are a multi-agency priority, consisting of Coast Guard, local and state law enforcement, and the Environmental Patrol. The inadvertent threat posed by these huge ships is a classified report, part of which has been seen by Eye Spy

US GOVERNMENT REPORT WARY OF FLOATING Incoming White



Boston, provides a security
harbour. Escort of LNG Tankers
police, and Massachusetts
vessels has been identified in a

LNG BOMBS Heat



As Tom Ridge departs as head of America's Homeland Security, details of a highly classified year-long study warns of a major maritime threat to urbanized US coastal regions. The study, which focuses on the possibility of a terrorist attack on tankers carrying liquefied natural gas (LNG), was commissioned by the US Energy Department in late 2003, and awarded to the acclaimed Sandia National Laboratory. Its scientists have produced a chilling report that intelligence watchers have linked to al-Qaida.



Tom Ridge

Unclassified portions of the 160-page report indicate al-Qaida has discussed attacking such LNG-carrying vessels. Throughout 2003 and 2004, security agencies around the globe continually warned that al-Qaida might try to hijack cargo ships and use them as floating bombs. The Sandia report specifically discusses an attack on an LNG vessel, though it says that any resulting spill would be unlikely... but not impossible. However, if gas did manage to escape, it would create a huge fireball that could destroy buildings up to a mile away and cause dreadful burn injuries to people.

Tankers currently carrying the gas arrive at four US ports, Boston and Maryland and two in the Gulf. This is

set to increase as proposals to build new terminals to meet increased demand of LNG are considered. Homeland Security officials are concerned that an attack on a vessel close to an urban area could be catastrophic, thus finding suitable locations for the new ports is important.

Liquid natural gas, in its -260 state, can't escape from the tankers nor can it be ignited. The Federal Energy Regulatory Commission (FERC), said LNG is non-explosive in a liquid state - the same condition in which LNG is transported on ships. The authority advertises LNG to be nonflammable in both a liquid form and unconfined in a gaseous state. The main concern that heat generated from an explosive charge and the ensuing fire could quickly transform LNG into a gaseous state is almost irrelevant. Simply releasing LNG from its cryogenic container creates a highly flammable vapour cloud such as the one released in a previous disaster involving this fuel.

In 1944, in Cleveland, Ohio, an LNG storage tank failed resulting in a massive spill. The gas formed a vapour cloud that flowed down nearby streets and seeped into the underground sewer system via street-level storm drains. Shortly thereafter, the gas ignited killing 128 people and caused millions of dollars in property destruction. Moreover, the vast area of underground sewer systems and street runoffs occupied by LNG as a result of the spill casts further doubt upon the FERC statement that LNG is "not explosive if it is unconfined."

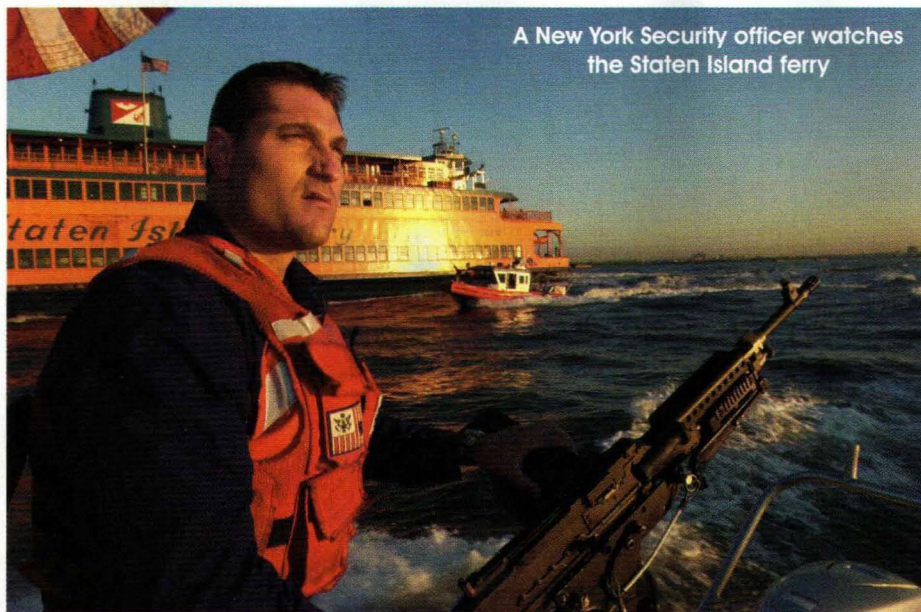
Sandia's researchers say if an attack on the ship's hold ruptured the tanks, the escaping liquid would turn into its gaseous form and would almost certainly ignite causing a huge fireball some 2,000ft in diameter. That would spread as other tanks are holed.

The arrival of LNG shipments at Boston Harbour already spark an elaborate security procession that includes maritime patrol boat escorts, helicopters, ➤



The results of the terrorist attack on the giant tanker MV Limburg

PHOTO COURTESY: US COAST
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A New York Security officer watches the Staten Island ferry

police divers, firefighting tugs, and the closing of the Tobin Bridge - the Route 1 commuting expressway, which LNG ships clear by less than 10 feet. In addition, Massachusetts State Police cruisers are placed strategically along the shore to watch for possible land-based missile attacks.

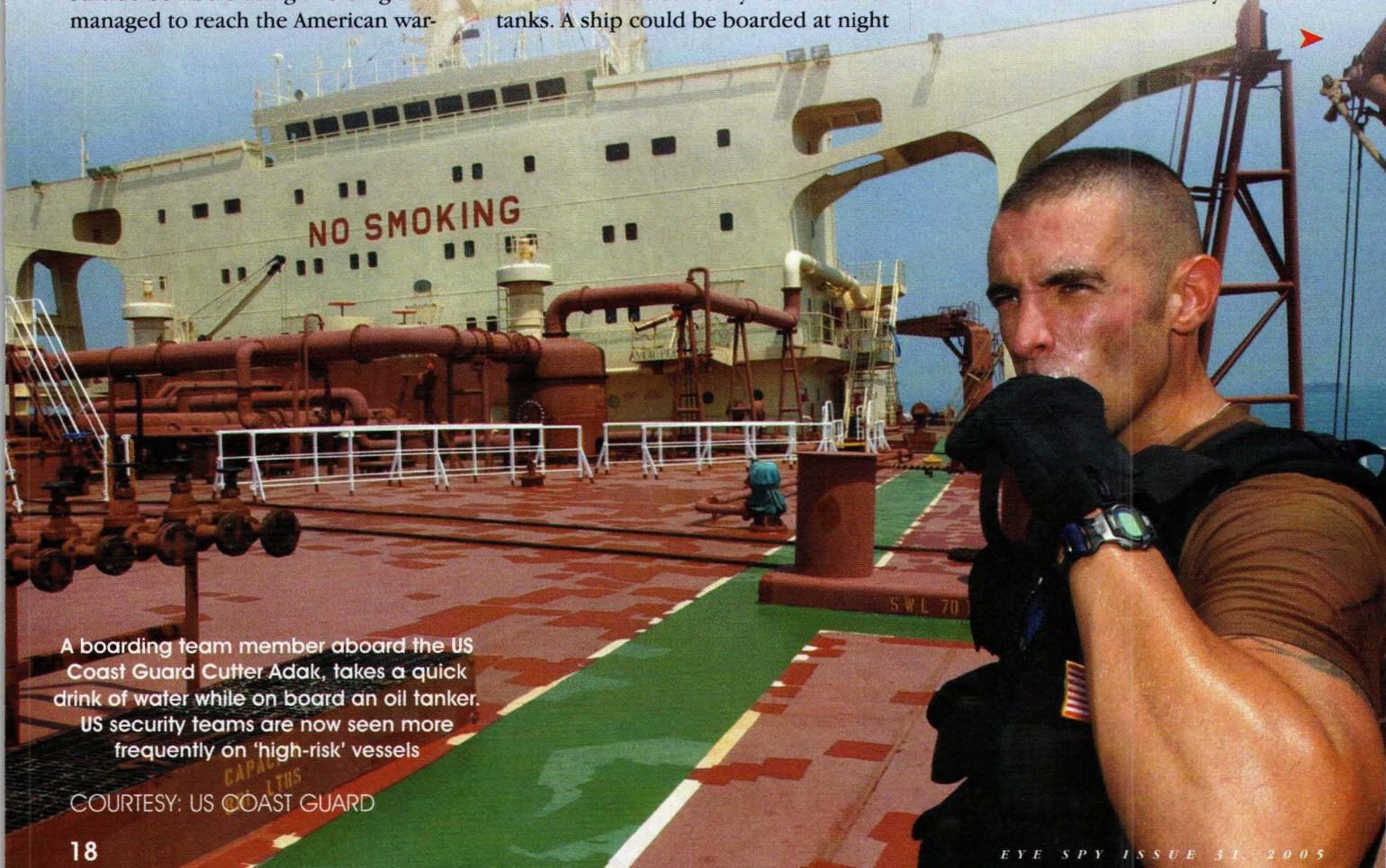
Sandia researchers have already noted the dangers of an attack by small boats packed with explosives. Off the coast of Yemen on 12 October 2000, al-Qaida suicide bombers using two dinghies managed to reach the American war-

ship USS Cole. As the boats exploded, it left a gaping 40ft hole in the Cole's 505ft long-hull. A similar attack creating just a 10ft hole on an LNG ship would be disastrous. The report stated that escaping LNG would soon find its way around the ship's cavities and with the optimal mixture of fuel and oxygen, an explosion could not be discounted. This in turn would lead to millions of gallons of fuel spilling into the water.

Analysts studied various ways in which terrorists could try to smash the tanks. A ship could be boarded at night

or while in port; an al-Qaida sleeper operative may attempt to find work on such a vessel; a shoulder-launched missile could be fired from the shore as the ship prepared to dock. In all the scenarios discussed, the possibility of rupturing the containers is small, but not impossible. The method most likely to succeed is by actually attaching bombs to the containers.

Many of the ships carrying LNG have four or five containers. Some carry a staggering 30 million tons of LNG. Significantly, the report does acknowledge the potential for disaster even if just one of the containers were to be holed. "Cascading damage could result," the report states. This is certainly a reference to the fact that an explosion in one container would result in the 'domino effect'. Indeed, researchers believe several tanks would be ruptured which would "increase the fire's intensity and lengthen its duration." The fireball would spread from one tank to another because the heat would be immense. Scientists also noted that the foam used as insulation in most of the containers would probably decompose resulting in more heat transfer. This is a controversial area for Homeland Security, for only recently the agency denied the containers were coated with the foam, only to admit a short time later it was "widely in use."



A boarding team member aboard the US Coast Guard Cutter Adak, takes a quick drink of water while on board an oil tanker.

US security teams are now seen more frequently on 'high-risk' vessels

COURTESY: US COAST GUARD



COURTESY: US NAVY

YEMEN 12 OCTOBER 2000

These graphic photographs show the damage caused to the huge US warship, USS Cole. They are proof enough that with planning and fanatical determination, al-Qaida has the means to strike at the largest of targets.

A similar attack on an LNG tanker in a built-up area could prove catastrophic.

There is an abundance of intelligence that has convinced the United States that it must augment its existing security procedures for incoming LNG vessels. Specialist anti-terrorist teams and new firefighting equipment are already in place.



NIGHTMARE SCENARIO



Officials admit threat is real

The threat to liquefied natural gas tankers was immediately recognised just days after the terrorist attacks on 11 September 2001. Mayor Thomas Menimo temporarily suspended shipments of LNG into Boston Harbour. National security officials were satisfied that LNG shipments to Boston Harbour as a likely target for future terrorist attacks. However, many residents in the city have been concerned by the shipments long before then. Viewed as unprecedented hazard, 33 million gallons of LNG are delivered by tanker once a week.



Mayor Thomas Menimo pictured alongside a tanker clearly marked LNG

Despite massive security precautions, concerns regarding the vulnerability of LNG tankers and the potential for a terrorist strike persist. Three other ports in the United States take delivery of liquefied natural gas via ship. However, Boston is seen as especially vulnerable because it is the only such port located in a commercial or residential harbour. This fact was one that prompted Sandia researchers to examine the implications of an LNG ship being attacked by terrorists.

In February 2004, James Fay, a leading LNG expert and professor at the Massachusetts Institute of Technology (MIT), said an explosive laden boat detonated next to or underneath an LNG ship - as in the case of both the USS Cole and the MV Limburg - would cause at least half of the onboard LNG to spill into the harbour creating a sea of searing fire enough to burn everything from buildings to people in a half-mile radius. "There's no doubt that with a big enough bomb you can blow a hole in the side of a vessel and the cargo will burn. Within a distance of a half-mile or so, you can get second-degree burns to exposed skin in about 30 seconds."

During a hearing addressing LNG safety and Boston Harbour held in February 2004, Fire Commissioner Paul A. Christian told the House Committee on Homeland Security and Federal Affairs that the Boston Fire Department was ill prepared and equipped to handle any LNG catastrophe. "We feel the risk is more than the Boston Fire Department could handle... we have a lot of serious and grave concerns."



An LNG tanker approaches shore - it signals the beginning of a major air, sea and land security operation.

Consumption of LNG is on the rise in the United States - a fact seemingly noted by al-Qaida. CIA analysts are certain that the terror group want to "create another spectacular", a blast aboard such a vessel in a built-up area of America would almost certainly result in a huge loss of life. Unable to move chemical and biological weapons freely into the United States, al-Qaida has recognised that a tanker carrying LNG, is in theory, a potential and ready-made 'floating bomb'.

At present, most of the natural gas consumption is supplied by Canada, Mexico, and the Caribbean. However, intelligence analysts have noted that to address shortages, the USA is now importing LNG from more distant places, such as Algeria, Nigeria, and Russia. In 2002, LNG accounted for only 5 per cent of net natural gas imports. This is expected to rise to 39 percent by 2010 and as high as 66 percent by 2025.



Abu Musab al-Zarqawi

The CIA and FBI recognise that the terrorist threat to oil and gas is on the rise and must be countered. LNG now falls within the 'threatened energy family'.

Terrorists, including Ayman al-Zawahiri (Osama bin-Laden's deputy)

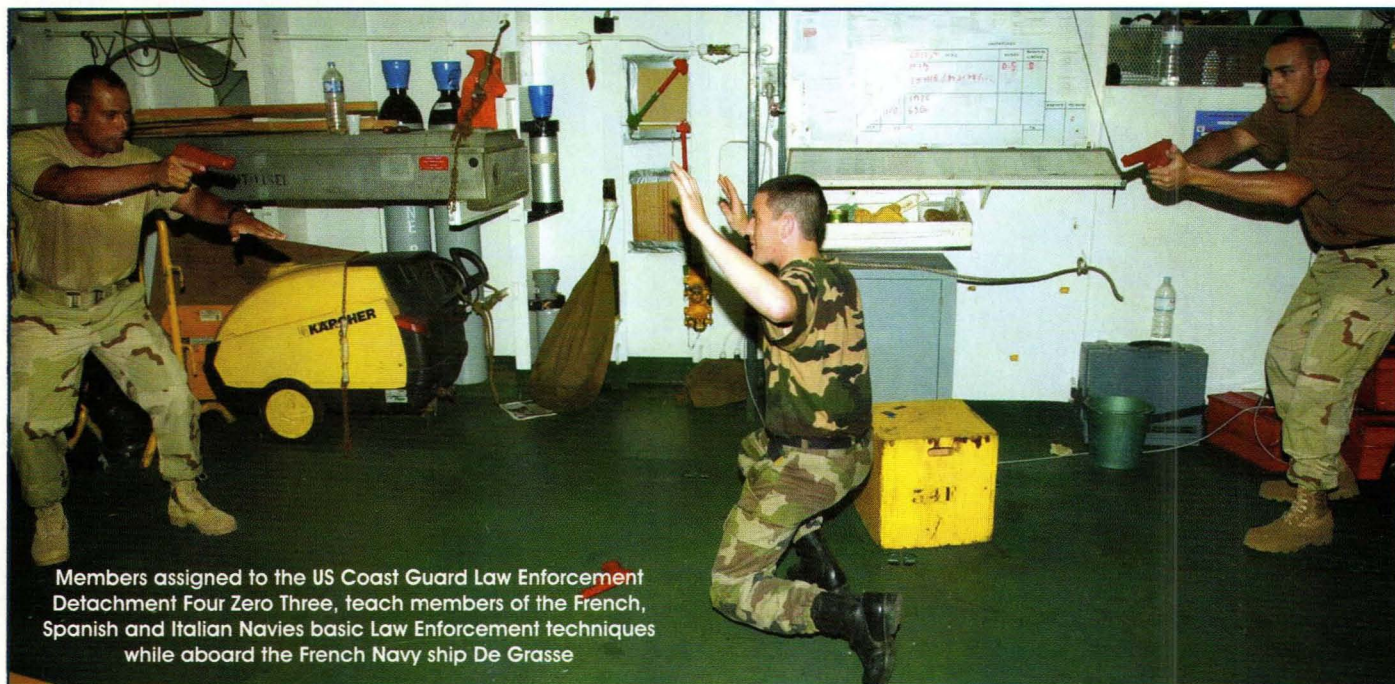
and Abu Musab al-Zarqawi, have proclaimed that US and Western economies and their oil lifelines are legitimate targets. Terrorists have attacked pipelines in Iraq, Colombia, and Chechnya, have assassinated oil company employees in Saudi Arabia, and have taken hostages on Nigerian oil rigs. The group has now turned its attention to LNG.

The CIA note that al-Qaida has the capability to cause severe disruptions "from well to wheels," targeting oil fields, pipelines, ports, storage facilities, tankers, and refineries - both abroad and in the US. The Sandia project was almost certainly initiated because of several factors, not least because the US is planning to use more LNG which means more terminals. More terminals means larger numbers of incoming vessels and more opportunities for the terrorists to strike.

Tom Ridge said the United States remains al-Qaida's top target, despite a recent decline in intelligence pointing specifically to plans for a US attack. "We can't be any less vigilant because the level of intelligence that speaks specifically about us over the past couple of months has been reduced. I don't think we can lose sight of the fact that at the end of the day the United States and our economy and our way of life is still al-Qaida's primary target," he said.

• On 19 January 2005, the authorities were informed about four suspicious

persons who had crossed the Mexican border. After being seen in New York City, the group headed towards Boston. The FBI decided to alert the public over a possible threat to the city. Mayor Menino sought to dispel news reports about the possibility of a dirty bomb or a plot to attack a liquified natural gas tanker in the city's harbour, and federal officials called the tip typical of the kind of fragmentary and unsubstantiated information that federal authorities routinely check out, but rarely find significant. However, it is clear that even an "anonymous tip" is enough to generate a huge security operation. The fact that LNG was again mentioned is simply not coincidence.



Members assigned to the US Coast Guard Law Enforcement Detachment Four Zero Three, teach members of the French, Spanish and Italian Navies basic Law Enforcement techniques while aboard the French Navy ship De Grasse

COURTESY: US COAST GUARD

A flight deck fire party assigned to the Coast Guard Cutter Polar Sea, battles a controlled fire during a training evolution at the Commander Naval Education and Training Whidbey Island Fire School



'Millennium' Plot and LNG - Intelligence Thread?

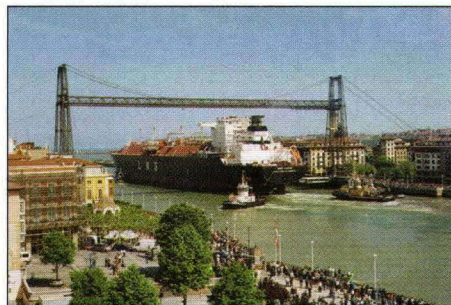
Former Counter Terrorism Head Raised Concern with FBI Officials

According to former National Coordinator for Counter Terrorism, Richard A. Clarke, concerns regarding LNG safety in Boston Harbour resurfaced when intelligence officials investigating the failed 'Millennium' plot to bomb Los Angeles International



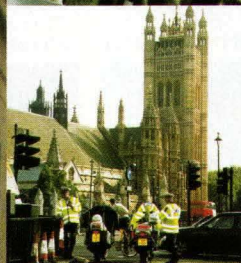
Airport, learned that terrorists were infiltrating the United States onboard Boston-bound LNG tankers. The intelligence was allegedly gleaned by the FBI from Algerian officials.

The FBI has questioned the accuracy of Clarke's information and a statement from the Bureau said much of Clarke's testimony was based on preliminary intelligence given to him during the FBI's then-ongoing investigation in June 2000. Shortly afterward, the FBI concluded that none of the known Algerian stowaways had any connection to terrorist activity.



However, Abdelghani Meskini, who entered the United States in 1995 onboard an Algerian tanker, was later convicted for his alleged participation in the Millennium plot. The FBI said no connection between al-Qaida and Meskini, who has cooperated with authorities and denies being a terrorist, could be established in 1995.

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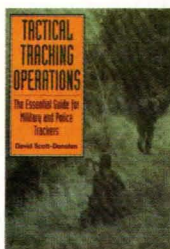
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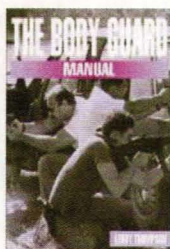


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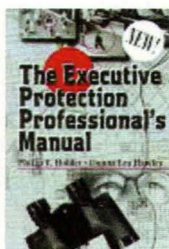
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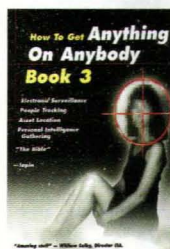
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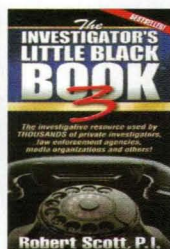
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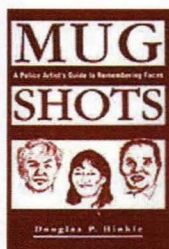
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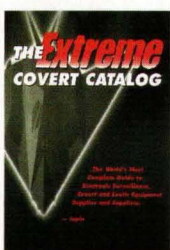
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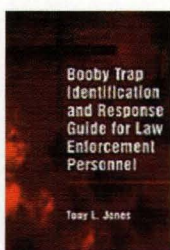
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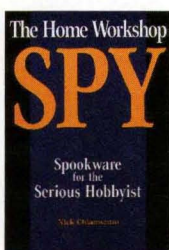
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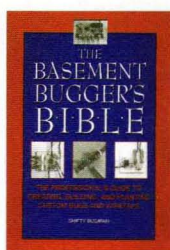
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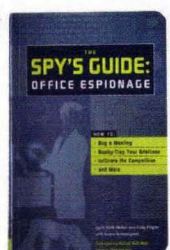
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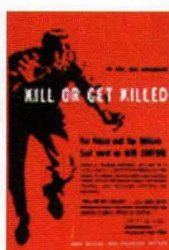
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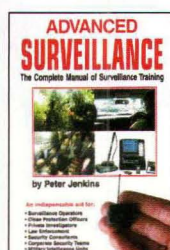
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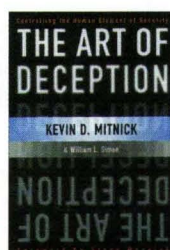
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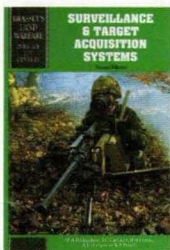
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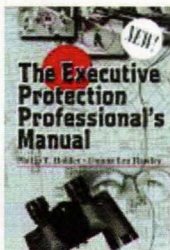
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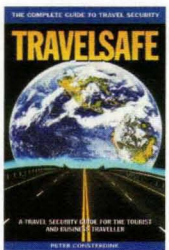
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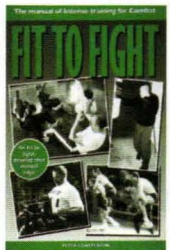
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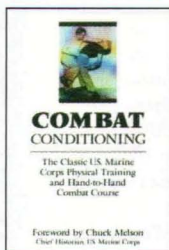
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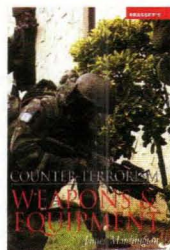
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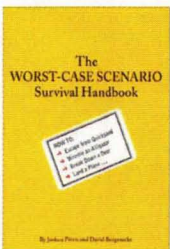
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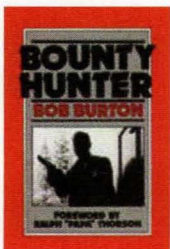
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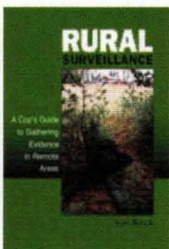
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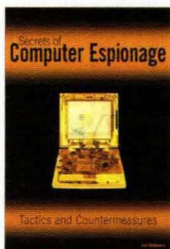
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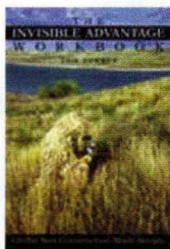
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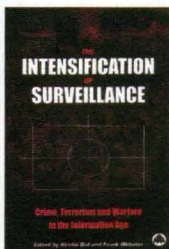
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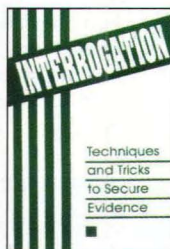
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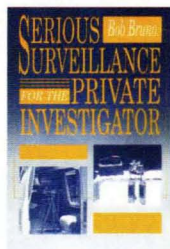
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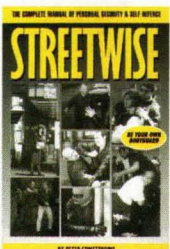
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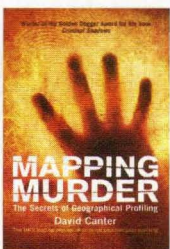
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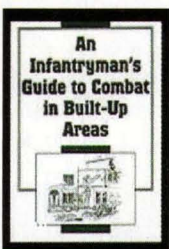
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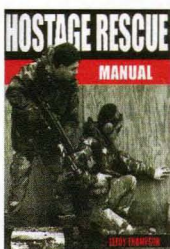
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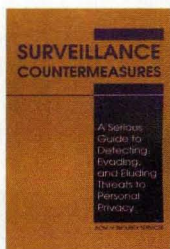
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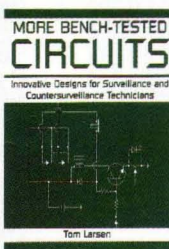
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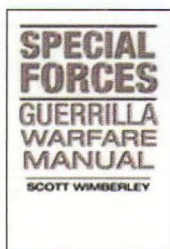
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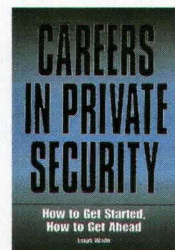
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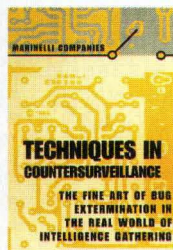
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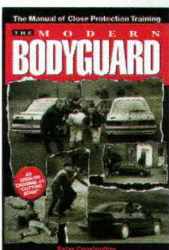
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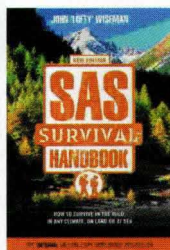
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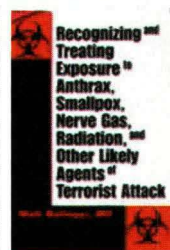
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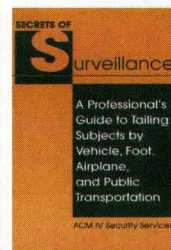
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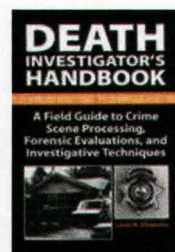
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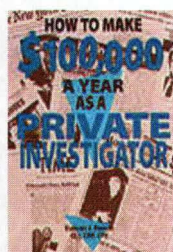
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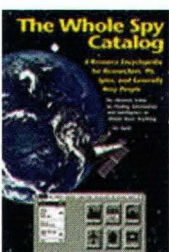
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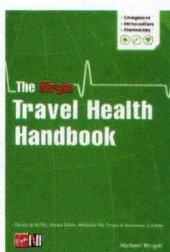
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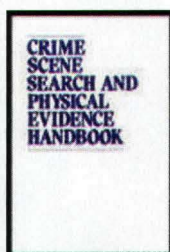
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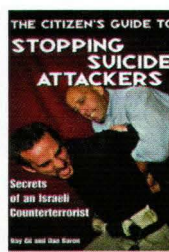
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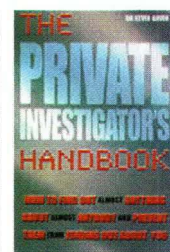
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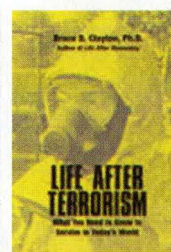
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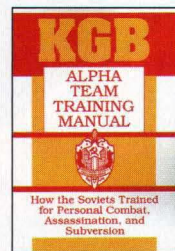
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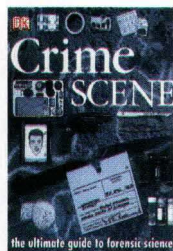
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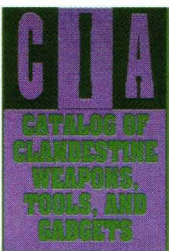
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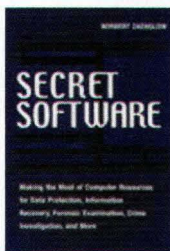
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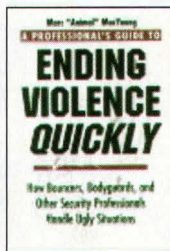
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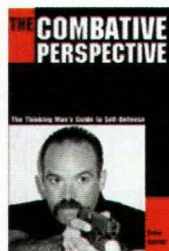
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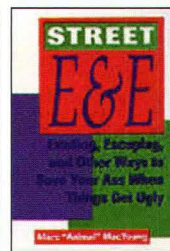
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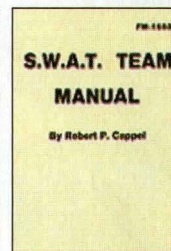
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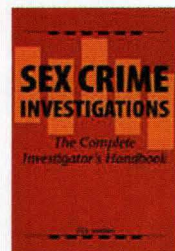
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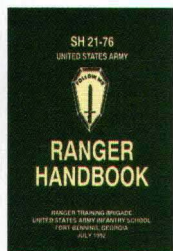
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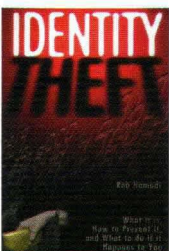
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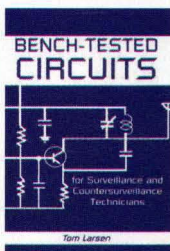
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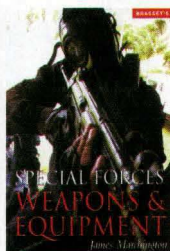
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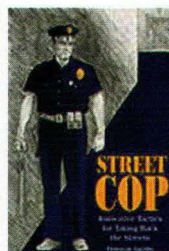
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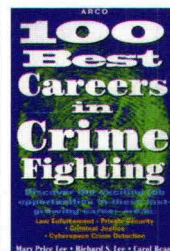
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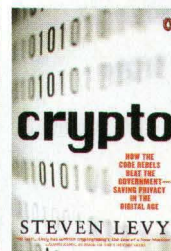
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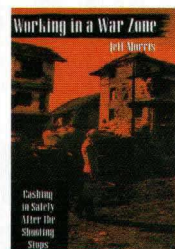
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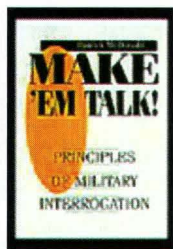
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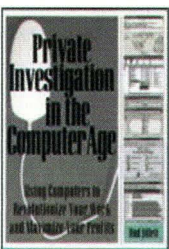
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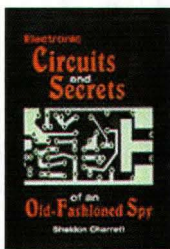
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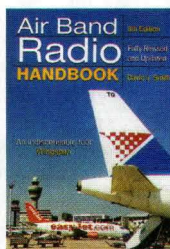
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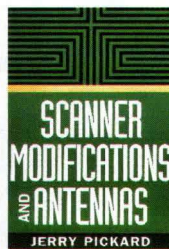
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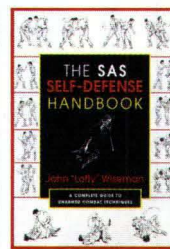
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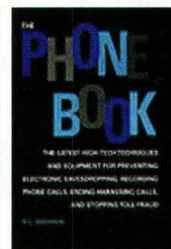
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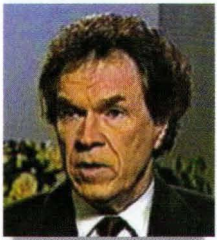
CIA warn MI6
cousins of
biowarfare
spies as US
SnifferStar
project set to
flourish

Ten Seconds From

Sandia scientist with device that will enable security services to detect biological or chemical attack and could provide valuable seconds

Over twelve months ago Eye Spy reported that MI5, Britain's Security Service, had begun infiltrating universities in an attempt to identify al-Qaida infiltrators. MI5 feared that Bin-Laden supporters could obtain materials used for a biological or chemical attack.

It has since been learned that MI5 has begun examining the background of a number of foreign students studying chemistry and biology. This new action followed an intelligence signal sent to London by senior Pentagon officials who warned Osama bin-Laden is recruiting



scientists to prepare weapons for biowarfare attack. The warning came from Raymond Zilinskas (left), one of the Pentagon's leading

biowarfare consultants. It was reinforced by John Bolton, US under-secretary of state. "The overwhelming bulk of our evidence is that his efforts are focused in such an attack," said Bolton.

MI6 and the CIA are aware that al-Qaida commanders have been given a 'slush fund' to tempt scientists to part with their knowledge and skills. The UK has a fantastic reputation for producing scientists and al-Qaida is willing to pay significant monies for guidance.

CIA Director Porter Goss, has also warned John Scarlett, the head of MI6 that Britain is now a prime target for such an attack. Goss's letter was supported by Meir Dagan, the head of Israel's Mossad.



A study which Dagan helped to co-author entitled '*The Future of Bioweapons*', which was circulated in the New Year to MI6 and other European intelligence agencies, states:

'Al Qaida could soon be in a position to create artificially engineered biological agents that could spread disease on an unparalleled scale. The same science that is taught in universities can now be adapted to become the world's most frightening weapons.'

It is understood the CIA has dispatched undercover agents to South America to track reports that scientists working in heroin-producing labs have been re-

cruited to use their skills to manufacture biochemical weapons.

"But our prime focus is that Osama bin-Laden is focusing on young scientists in university departments in the same way he sent his September 11 hijackers to US flying schools. We have no doubt that he has planted some of those scientists in British campuses," said one of Porter Goss's senior aides.

COUNTERING THE THREAT

Since 9/11, Britain and the United States have continued to examine methods that might give an early indication of a

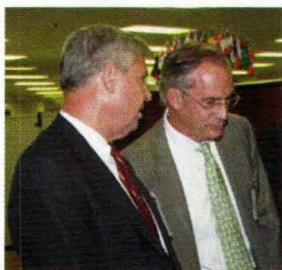


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NOW



A US Navy controller watches through the eye of a UAV. A computer also allows him to detect its exact position



CIA head Porter Goss (R)

chemical or biological attack. Scientists are conducting experiments to adapt sensors that would warn of changes in the

atmosphere, both in theatres of war, and built-up areas. The device also has possibilities for use in or near the ventilation systems of buildings, or, with addition of a small pump, on posts surrounding military bases. One company at the forefront of such work is Sandia National Laboratories in partnership with Lockheed Martin Corporation.

In recent months they have successfully tested tiny devices that can be attached to roaming Unmanned Aerial Vehicles. The sensor detects nerve gases and blister agents, and operates on only half a watt of electrical power. While other gas monitors exist, "this is small, lightweight, low power, and offers rapid analysis," said Sandia researcher Doug Adkins. "Rapid analysis currently is not possible with any other package near this size."

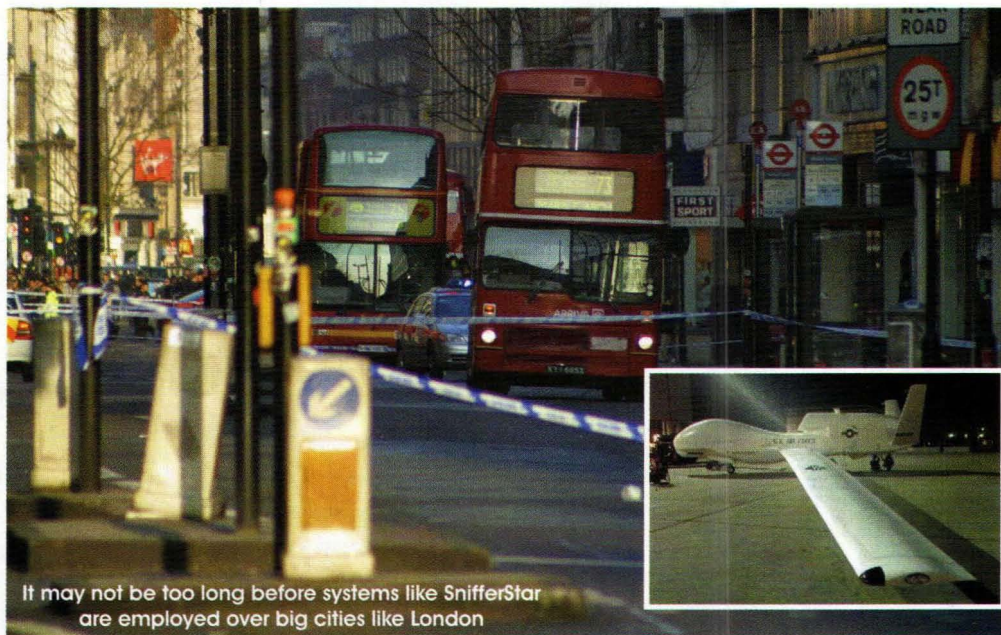
Immediate analysis is critical in warning an endangered population of an attack or in surveying sites after alleged incidents.

PROJECT SNIFFERSTAR

The sensor is called SnifferStar and consists of a series of tiny sensors on a platform about two inches wide. It sits atop a microprocessor board smaller than

a credit card. It was originally designed to be housed on remote drones - the forward motion of the vehicle forces air through the device.

Material in the sampled air is absorbed and concentrated. It is then thermally released (desorbed) to pass over thin stripes of coating materials, to which it temporarily sticks.



It may not be too long before systems like SnifferStar are employed over big cities like London



The coating stripes are located on a quartz surface that vibrates at pre-set frequencies when minute amounts of electricity pass through it. The mass of incoming stuck particles changes the frequencies of the vibrations of each stripe.

The altered frequency data are passed to a processing unit on the SnifferStar module. The data are then relayed to a processor on the drone or radio-linked to a main data processor on the ground. The information is automatically compared against a library of the patterns created by a range of gases. The device ignores most common interference.

The sampling process is repeated every 20 seconds, with 15 seconds intake and five seconds for analysis. The inrush of air then clears the device sensors for the next reading.

It is just one of several 'early warning' projects that could eventually be used to detect the release of biological and chemical agents. Intelligence and security officials are considering placing such units in strategic places like government buildings, sensitive areas like nuclear power stations, and perhaps more relevant, cities and locations frequented by large numbers of people. "If such an attack occurs, seconds count," an intelligence expert told Eye Spy. "It is not beyond the bounds of possibility that warning sirens will once again be heard in places like London or New York. Any defence mechanism that gives the public even a few seconds to flee and get indoors, is better than none at all."



Warnings could be provided in seconds if chemicals were detected allowing valuable seconds to get indoors, or away from the area

A KGB SPY SOUP?

Agent Orange Used to Poison Yushchenko

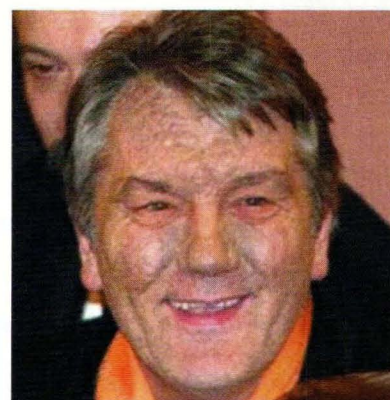


Doctors who examined Victor Yushchenko, 50, the new political leader of the Ukraine, discovered that he received a near-lethal dose of dioxin, a component of Agent Orange, the herbicide used by the US in Vietnam and blamed on a wide variety of illnesses, including birth defects and cancer.

Yushchenko's facial features deteriorated as he battled to overthrow his Russian-backed opponent for the

Zimpfer. "If, for example, arsenic had been used, it would have taken effect quicker had dioxin been used as a carrier. If the dose had been slightly higher, it might have caused death."

As for how the poison was absorbed, intelligence officials believe it can be traced back to a dinner he had with intelligence officials from Ukraine's Security Service, the SBU on 5 September 2004. In attendance was the head of the SBU, Ihor Smeshko and his



These graphic images show Yushchenko's facial features before and after the dinner in September 2004

presidency, Leonid Kuchma. His face became swollen and lesions were noticeable. He also suffered a great deal of abdominal pain.

Western intelligence officials suspected a shadowy operation, backed by Moscow, was behind the disfigurement. However, it was only after Dr Michael Zimpfer, the head of Austria's Rudolfinerhaus clinic, had examined Yushchenko, that the dioxin was discovered. Tests showed he had levels of the poison 1,000 times above normal levels. "Dioxin is easily absorbed by the body and might have been used as a carrier to facilitate the passage of other substances into the body," said Dr

deputy, Volodymyr Stasyuk. The SBU was formed from the remnants of the Ukrainian branch of the KGB and many of its officers still yearn for the old days of the Soviet Union. Following the meal, his wife Kateryna Yushchenko, noticed a distinct taste of medicine on his breath. "I asked him about it but he just brushed it away saying it was nothing," said Mrs Yushchenko.

Viktor Yushchenko believes an attempt was made by assassins on his life. "We had received threats before it happened and we continue to receive threats. We are talking about the Ukrainian political kitchen where assassinations are ordered."

COUNTERSPY

Cold War Spy Cases from a Counterespionage Officer



Eye Spy 30 contained a review of OSS (Office of Strategic Services) veteran Richard W. Cutler's *Counterspy: Memoirs of a Counterintelligence Officer in World War II and the Cold War*. This hugely important book contains several previously unknown spy cases. Mr Cutler and his publishers Brassey's have kindly given permission to excerpt part of the book describing the background in which they occurred

Cutler's prime mission as chief of X-2, the counterintelligence branch was to identify and then eliminate or double Soviet agents operating against the Americans. Even before the war's end NKVD (Soviet Secret Service later renamed KGB) recruited former German Intelligence officers to spy on its Western allies. Cutler fought fire with fire by recruiting a former German intelligence officer, Heinz Krull, code-named Zig-Zag, to track his former colleagues and either recruit them as agents against the NKVD or double them if they were already Soviet agents. Zig-Zag tracked over fifteen in a short time.

Cutler explains how he came into the hands of OSS and operated thereafter. He quickly doubled Hans Kemritz a former Abwehr Major who, as a NKVD agent, lured former colleagues into NKVD capture and frequent death.



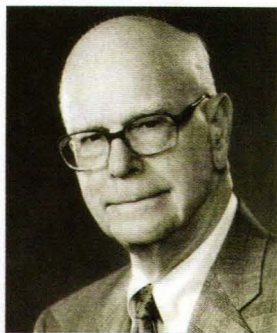
COURTESY: RICHARD W. CUTLER

From Richard Helms I learned a life-long lesson in the advantages of comparative analysis. He once said, "Dick, I can better judge whether your recommended solution is the best if you carefully describe the top two possible alternative solutions, analyse the pros and cons of each, and then tell me why you picked number one over number two. That approach gives depth to your analysis not available if you only present the case for the winner."



Richard Helms

Especially helpful were frequent long sessions in which the head of British MI6 counterespionage in Berlin, Major L F Brydon, and I shared our recent operations involving Soviet intelligence. A bachelor like me, he offset the loneliness of his secret work with a pet dog, a distinct rarity in food-short Berlin. Brydon was a quiet operative who



Richard W. Cutler

The secret underground war which shaped today's espionage tradecraft

had considerable experience with counterespionage. In the fall of 1945 he was already working with the first defectors from Soviet intelligence. I admired British skill in attracting those defectors and hoped I could do the same. MI6 also explained that they had obtained extensive intelligence from Russian slave labourers held in Germany.

Some may be born with a knack for counterespionage, but certain skills can only be developed in actual operations. For myself, on a fast learning curve, it was sink or swim. Fortunately, close team work with a smart former Abwehr officer helped me swim.

AGENT ZIG-ZAG

The agent was Heinz Krull, code-named Zig-Zag, who before the war had served as a government prosecutor in his native Berlin. In 1941, on being called to military service in the Abwehr's counterespionage branch, he investigated people suspected of spying. In February 1944, after it was dissolved the Abwehr and Zig Zag's entire branch was taken over by the counterespionage section of the *Sicherheitsdienst*.

As Berlin crumbled before the advancing Soviet Army, Zig-Zag fled west disguised as a simple private. Taken prisoner by the Americans, he promptly raised American suspicions. He wore an ill-fitting uniform and had a low military rank for someone

Heinz Krull,
code-named
Zig-Zag



COURTESY: RICHARD W. CUTLER



in his mid-to-late thirties. CIC (Counter Intelligence Corps) interrogators discovered his true identity and obtained the names of 53 former Abwehr colleagues. Then G-2 transferred him to OSS-Wiesbaden, from which he was sent to me in Berlin for use as a double agent, or *agent provocateur*.

Immediately, we asked Zig-Zag to track down all former Abwehr officers he had known in Berlin. Many had departed forever, but some had stayed, while others had left and then returned. Zig-Zag set about his task with surprising zest. In almost no time, he discovered two or three targets. Equipped with a false name and documents, Zig-Zag told his quarry that he had fooled the "dumb Americans," or "Amis," as we were called, by posing under an alias. Then he inquired how they had escaped capture. Being a small, inconspicuous man, Zig-Zag easily convinced most targets that he had indeed fooled the dumb Americans. All of his targets were on the occupying powers' automatic arrest list because of their former intelligence positions. Some, he discovered, had become agents for the NKVD.

Sometimes the NKVD took a family member hostage in order to coerce its prey to become an agent against the West, particularly against the Americans. The Soviet practice of redirecting former German intelligence personnel against the West, plus fractious and uncooperative Soviet occupation policies, quickly convinced OSS that the Soviet Union under Joseph Stalin was intensely hostile.



Checkpoint Charlie - Berlin. It was on the streets of this spy-infested city that Richard Cutler and his US intelligence colleagues fought a secret underground war with the Soviets



them ourselves, or imprisoned them as members of the former German intelligence service.

As Zig-Zag continued ferreting out Soviet agents, I learned step by step how to play cat and mouse with their intelligence system. He taught me deception methods such as the use of cut out, or go-betweens, who add security to an operation by passing information between the spy and person controlling his or her assignment. This helps prevent an enemy agent who is "tailing" a spy from discovering his control.

AGENT SAVOY

One of our agents was code-named Savoy. Savoy was operational for two years and produced useful intelligence. But he was to pay a great price years later.

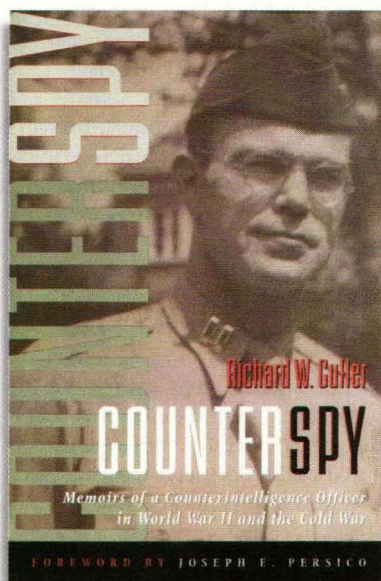
Savoy was a former Abwehr major, Hans Kemritz, whom Zig-Zag easily located and doubled almost as soon as Kemritz returned to his prewar law office in the Soviet sector of Berlin, near the Brandenburg Gate. When Zig-Zag hinted that there were advantages to becoming an American agent, his quarry replied, "But I'm already working for the NKVD," to which Zig-Zag countered, "You could work for the Americans by telling them what the Soviets are asking you to do." He did.

In 1939 the German Army had recalled Kemritz to duty and assigned him to the Abwehr counterespionage directorate in Berlin, where he ultimately became chief of III-F, responsible for the security of military personnel. He was captured by the Soviets on 1 May 1945, and imprisoned in Berlin. He was released in October 1945 by an NKVD captain who said his name was Skurin. There were conditions - he must become an



COURTESY: RICHARD W. CUTLER

As the counterespionage branch, we decided to try and identify all Soviet agents, learn their missions, neutralise them, and if possible double a select few. Zig-Zag with his superior intelligence, knowledge of Berlin, and zeal to "do in the Soviets" was a great find. Over several months he traced and compromised many Soviet agents from the Abwehr. We then doubled



Counterspy: Memoirs of a Counterintelligence Officer in World War II and the Cold War

"No layman's account can substitute for being there. That is the irresistible appeal of Richard Cutler's *Counterspy*. Cutler was there, in the arena, an articulate, insightful, and reflective participant in operations from World War II into the dawning of the Cold War. Eyewitness accounts such as Cutler's about World War II and the early Cold War belong to a fast vanishing breed. Thus, such first hand reportage becomes all the more priceless." - Joseph Persico author of *Roosevelt's Secret War: FDR and World War II Espionage*, *Piercing the Reich: The Penetration of Germany by American Secret Agents in World War II*

"Cutler, through this brilliant memoir, fleshes out the untold daring-do of these intriguing spies and spy catchers" - Patrick K. O'Donnell, author of *Operatives, Spies, and Saboteurs*

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Counterspy available from Eye Spy: ES/956 UK £22.50, USA \$30.00, ROW £25.00



Pictured here in Wiesbaden are, from left to right: Hugh Cunningham, Wilma Taber, the author's assistant in London, and Richard W. Cutler

agent for the NKVD and not leave the Soviet sector of Berlin.

The NKVD ordered Kemritz to locate men they were looking for, primarily former Abwehr officers. Kemritz wrote letters from his old law office to Abwehr colleagues and other Berlin lawyers. He invited them to his office, sometimes for a social chat, sometimes on fictitious legal business. Kemritz reported to the NKVD the time they were to arrive and depart. After leaving Kemritz's office they were arrested and hauled off to jail. They were interrogated and often accused, in these instances falsely, of being American spies.

We considered Kemritz to be a potentially valuable double agent. A highly experienced intelligence officer with many acquaintances in Berlin, he was smart, confident, and daring to the point of recklessness. He worked diligently for Captain Skurin. We believed Kemritz could help us learn more about Skurin, whom we came to believe was a key figure in anti-American espionage. We asked Zig-Zag to obtain from Kemritz as much information as possible about Skurin's intelligence objectives and colleagues. Gradually Kemritz fed a stream of significant information about Skurin to Zig-Zag.

Skurin's targets were subject to automatic arrest by any of the occupying

History of the NKVD

TIMELINE OF IMPORTANT CHANGES AND REORGANISATION

1917: The first Soviet state security organisation, the Vecheka, was created on 20 December 1917. The Vecheka (All-Russian Extraordinary Commission for Combating Counter-revolution and Sabotage) is more commonly known as the Cheka.

1918: The NKVD (People's Commissariat of Internal Affairs) had been formed to control the militia (police), criminal investigation departments, fire brigades, internal troops, and prison guards.

1922: With the end of the civil war and the resulting period of stabilisation, the Cheka was transformed, on 8 February 1922, into the GPU (State Political Directorate) which was subordinated to the NKVD.

1923: With the formation of the USSR in 1923 the GPU became the OGPU (Unified State Political Directorate) and was upgraded to an independent directorate of the Soviet Council of People's Commissars (i.e. it was removed from NKVD control).

1934: In 1934 the OGPU was transformed into the GUGB (Chief Directorate of State Security) which was subordinated into the new All-Union NKVD. This marked the beginning of Soviet state security's most powerful and autocratic period. All key aspects of internal and state security were now subordinated into one body under one leader - at first G.G. Yagoda, then, from 27 September 1936, N.I. Yezhov, and finally, from 25 November 1938 Lavrentii Beria.

1934 NKVD structure:

- GUGB (Chief Directorate of State Security)
- GUPVO (Chief Directorate of Frontier Guards and Interior Troops)
- GULAG (Chief Directorate of Camps)
- GUM (Chief Directorate of the Militia)
- other units responsible for Fire Fighting, Local Anti-Aircraft Defence, Highway Construction, Archives, etc.

1939: On 2 February 1939 the GUPVO was divided into 6 Chief Directorates:

- GUPV (Chief Directorate of Frontier Guards)
- GUKV (Chief Directorate of Convoy Troops)
- GUVOPGO (Chief Directorate of Troops for Guarding Industry and State Facilities)
- GUZhV (Chief Directorate of NKVD Railroad Troops)
- GUInzhV (Chief Directorate of NKVD Engineer Troops)
- GUIntV (Chief Directorate of the NKVD Intendants Service)
- GUOV (Chief Directorate of Operational Forces) since 1940

1941: On 3 February 1941, Decree 149 of the CPSU Politburo removed the GUGB from the NKVD and elevated to equal People's Commissariat status creating the NKGB. The NKGB was led by V. N. Merkulov, Beria's former deputy, who remained a loyal servant. The new NKGB was responsible for:

- external espionage
- counter-espionage throughout the USSR
- operations to find and liquidate anti-Soviet parties and counter-revolutionary formations in the USSR
- guarding the leaders of the party and state.

The NKGB was created at all levels (All-Union down to Oblast, Krai and Raion).

The NKGB was divided into:

- UR (Directorate of Intelligence)
- UK (Directorate of Counter-Intelligence)



NKVD headquarters



- USP (Secret-Political Directorate)
- UKMK (Directorate of the Kommandant of the Moscow Kremlin)

1941: The NKGB's independence was short lived. In late June 1941, after the German invasion, the NKGB was resubordinated into the NKVD as the GUGB to ensure closer control of the nation's security apparatus during this chaotic time.

1943: In April 1943, after the military situation had changed in favour of the USSR, the GUGB was again removed from the NKVD and became the NKGB. This time the change lasted until the birth of the MGB in 1946.

1946: In March 1946 the Soviet government was restructured and all People's Commissariats (NK) were redesignated Ministries (M). Thus the NKVD became the MVD and the NKGB became the MGB. Merkulov was replaced as head of the new MGB by V.S. Abakumov, S.N. Kruglov replaced Beria as head of the MVD, and Beria became a full member of the Soviet Politburo and a deputy chairman of the Council of Ministers exercising full control over the MVD and MGB.

1953: On 6 March 1953, the day after Stalin died, Beria succeeded in uniting the MVD and MGB into one body, the MVD.

1954: On 13 March 1954, after Beria's fall, "secret trial", and execution, the unified MVD was again split up. The reformed MVD retained its traditional policing and internal security functions while the new KGB took on the state security functions of the MGB. The KGB was subordinated to the USSR Council of Ministers, the Soviet Cabinet.

powers. The Americans sometimes imprisoned captured Abwehr officers for a year. That was the fate accorded to one von Hake who Zig-Zag had identified to the CIC in Frankfurt. The Soviets treated Nazi intelligence officers more harshly. Once, with our approval, Zig-Zag warned von Hake - after he was released by the Americans and returned to Berlin to avoid Kemritz's office because it was a trap. Von Hake ignored the warning and paid the price.

By mid-1946 Kemritz had provided ninety per cent of the information gathered by SSU about Soviet intelligence in Berlin, thanks to Skurin's relentless intelligence operations. Inevitably, however, the disappearance of so many Germans immediately after contact with Kemritz led to his undoing. On 2 November 1945, only three weeks after being released from the NKVD prison, he had arranged for two appointments at different times with Erich Klose, a personnel officer of the Abwehr, and Wolf von



Another view of Checkpoint Charlie

Gersdorff, an Abwehr driver in Romania. Both were hauled off to jail. There Skurin struck von Gersdorff in the face, falsely accused him of being an American spy, and placed him in solitary confinement. Eventually when von Gersdorff's weight dropped 100 pounds he was sent to a Berlin hospital. There, in return for his release, he agreed to Skurin's "pro-



Hans Kemritz

posal" that he spy on the Americans. Instead, von Gersdorff made a beeline for the Americans who quickly settled him and his family in West Germany for his security.

Many of Kemritz's other victims who landed in Soviet prisons died there. The wives of Kemritz's victims, including Elly von Hake, soon linked Kemritz to the disappearances. Individually they made inquiries of the Soviet occupiers, who

denied knowledge of the disappearances. By August 1946 the US military government said they would try to stop Kemritz, though they were powerless to arrest him legally in the Soviet sector where he remained. Then the women found out about each other and started holding regular meetings, pooling their efforts to hunt him down.

In late 1947 Kemritz disappeared from Berlin after jeopardizing his position with the NKVD. He had negligently noted on one of his reports to the NKVD that a copy had been made for American intelligence. SSU promptly moved him to West Germany.

In 1950 Elly von Hake sued Kemritz in a Berlin civil court for damages for the loss of her husband. She was supported by the Kampfgruppe gegen Unmenschlichkeit, a vigilant anti-Soviet human rights activist group that was subsequently financed by the CIA...

© Richard W. Cutler Part II next issue

THE OFFICIAL STORY TITANIC:

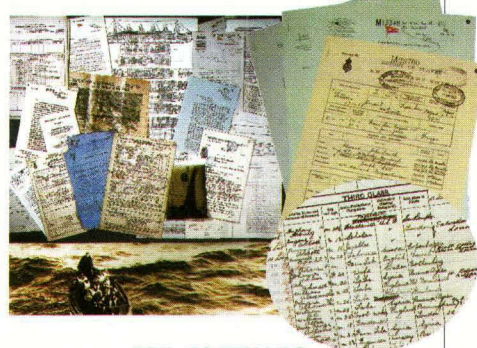
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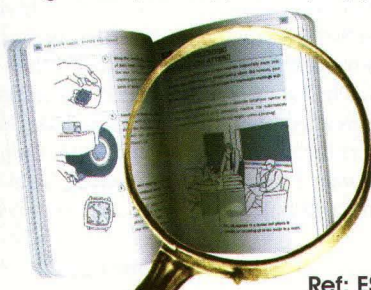
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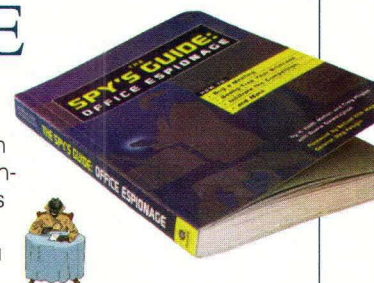
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THE INVISIBLE T

Clock is Ticking as Growing Emerges of Iran's Nuclear

Departing US Secretary of State Colin L. Powell told journalists that he has intelligence that reveals Iran's plan to adapt missiles to deliver a nuclear weapon. The information fuels widespread belief that Iran is totally committed to building a nuclear bomb, despite its claims to the contrary. In a separate issue, an exiled Iranian opposition organisation based in Paris announced that it has secured evidence of a secret military-run facility that is already enriching uranium. Mohammad Mohaddessin, of the National Council for Resistance in Iran said the site was not known to United Nations weapons inspectors. At a meeting held in Paris, the NCRI used a number of satellite photographs to show the previously unknown nuclear facility in Iran. The



group is regarded as a terrorist organisation by Europe and the United States.

When Colin Powell travelled to China on one of his last missions, he declared: "I have seen some information that would suggest they have been actively working on delivery systems. You don't have a weapon until you put it in something that can deliver a weapon. I'm not talking about uranium or fissile material or the warhead; I'm talking about what one does with a warhead."

Mr Powell made his comments a few days after an apparent agreement was reached between Iran and three

European countries - Britain, France and Germany - designed to limit Tehran's ability to divert its peaceful nuclear energy programme for military use. Under terms of the deal Iran must indefinitely suspend its uranium enrichment programme. However, adapting a missile to carry a nuclear warhead is totally separate from the question of enriching uranium for use in a weapon.

"I'm talking about information that says they not only have these missiles, but I am aware of information that suggests that they were working hard as to how to put the two together. There is no doubt in my mind - and it's fairly straightforward from what we've been saying for years - that they have been interested in a nuclear weapon that has utility, meaning that it is something they



THE BOMB

Evidence Bomb Programme

*“If you don’t want
your neighbour to know your
business - close your curtains...”*

would be able to deliver, not just something that sits there,” Powell said.

Intelligence analysts recognised immediately what Mr Powell was suggesting. “If you don’t want your neighbour to know your business - close your curtains,” one source told Eye Spy. Powell had been made privy to intelligence that revealed Iran was working on a secret programme to arm missiles with nuclear warheads, while continuing its negotiations with the UN and Europe.



Joseph Cirincione (left), director of the Non-Proliferation Project at the Carnegie Endowment for International Peace, said Powell’s statement indicated that Iran was trying to overcome the many difficult and technical

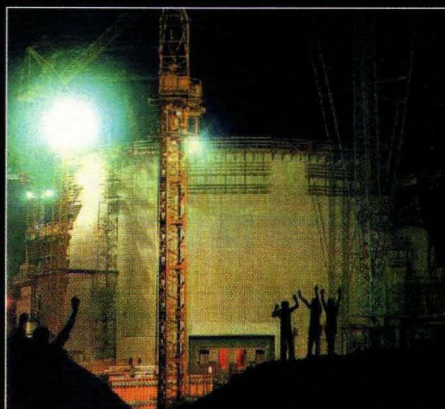
problems of reducing the size of a nuclear warhead to fit on a ballistic missile: “Powell appears to be saying the Iranians are working very hard on this capability,” he said.

The International Atomic Energy Agency (IAEA) appears at odds with US intelligence. Indeed, just seven days before Mr Powell’s statement in mid-

November 2004, an official said the agency “had not seen any information that Iran had conducted weapons-related work.”

In a 32-page report, IAEA chief Mohamed ElBaradei wrote: ‘All the declared nuclear material in Iran has been accounted for, and therefore such material is not diverted to prohibited activities’. However, he did not rule out the possibility that Iran was conducting a clandestine nuclear weapons programme, something that Mr Powell appears to be in the know.

As for possible action, Washington is monitoring the situation, constantly aware that as each day goes by, the



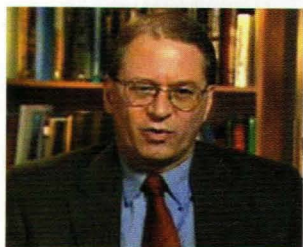
Iran’s nuclear energy plant at Bushehr



Mr Mohammad Mohaddessin Chairman of the Foreign Affairs Committee of the National Council of Resistance of Iran addressing the media in April 2004

likelihood that Iran will reach its goal is strengthened. Mr Powell said the United States would “monitor verification efforts with necessary and deserved caution because for 20 years the Iranians have been trying to hide things from the international community.”

The exiled Paris group says Tehran was still enriching uranium and would continue to do so despite the deal made with London, Berlin and Paris. The NCRI also claimed that Iran received blueprints for a Chinese nuclear bomb in the mid-1990s via the worldwide web and also from the covert nuclear technology network by the



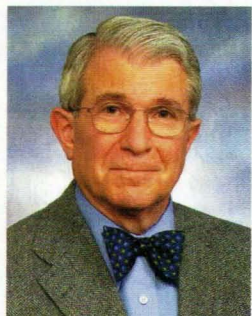
David Albright

Pakistani scientist Abdul Qadeer Khan. The Khan network sold the same type of bomb blueprint to Libya.

David Albright (left), president of the Institute for Science and International

Security, a nonpartisan arms control group in Washington, said, "The timing of these revelations raises suspicions that the group is attempting to derail Iran's deal with the Europeans, particularly since there is no evidence to back up any of these claims." He added that the allegation that Pakistan supplied Iran with highly enriched uranium in 2001 "seems preposterous, given the fact that was a year when the United States was really cracking down on Pakistan's nuclear export activities."

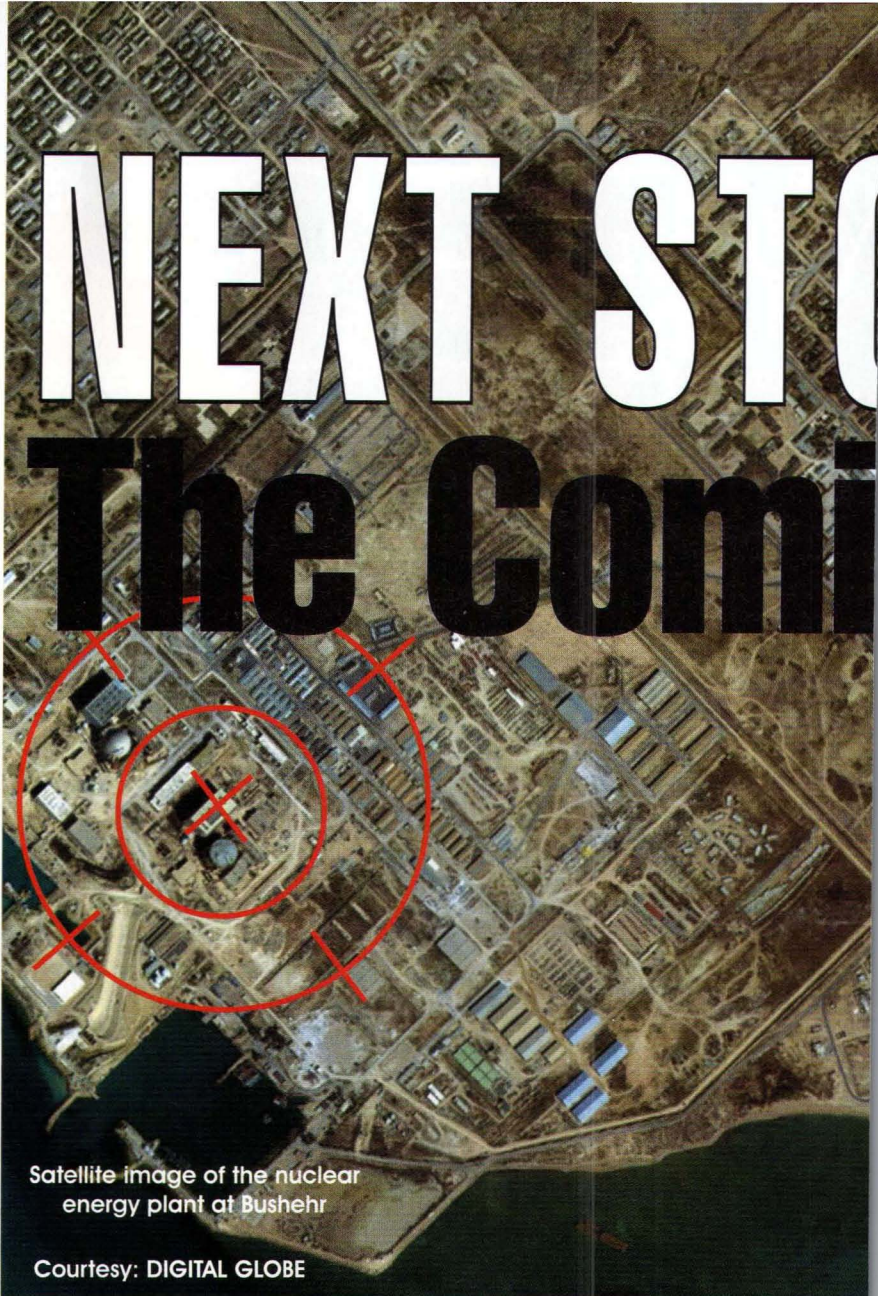
However, the NCRI have been right before. In 2002 it revealed the existence of two secret Iranian nuclear facilities, including an enrichment plant in the town of



Paul Leventhal

Natanz. This was noted by Paul Leventhal, of the Nuclear Control Institute in Washington, who commented: "The group has been accurate in the past. Everything that came out initially about the Iranian clandestine programme was from this organisation."

Mr Powell said: "I have seen intelligence which would corroborate what this dissident group is saying, and it should be of concern to all parties."



Satellite image of the nuclear energy plant at Bushehr

Courtesy: DIGITAL GLOBE

The Point of No Return Looms

MOSSAD HEAD SAYS IRAN WILL HAVE BOMB IN 24 MONTHS

The head of Israel's Mossad intelligence agency said Iran was on the brink of enriching uranium, a process key to building a nuclear bomb.

"The assessment is that by the end of 2005 the Iranians will reach the point of no-return from the technological perspective of creating a uranium-enrichment capability," Mossad head Meir Dagan told parliament's foreign affairs and defence committee.

Iran, which says its nuclear programme is for energy needs only, agreed in November 2004 to suspend uranium enrichment under a European Union-

brokered deal. Israel and the United States suspect Iran of buying time while it covertly seeks the bomb.

"The Iranians are striving to secure from the Europeans an agreement that would allow them to continue enriching uranium, even on an intensified level, under supervision and with guarantees," Dagan said.

"The moment that you have the technology for enrichment, you are home free," he said, adding that from that point it would take Iran around two years to manufacture nuclear weapons.

In July 2003, a feasibility study was undertaken by a special unit of the Mossad to strike all six known nuclear sites in Iran simultaneously. The Mossad plan was then delivered to the Israeli Air Force, which will carry out the strike. In 2004, Israel's Special Forces and Air Force (IAF) performed a 'dummy run' against the sites. The operation will see fighters crossing sensitive areas.

In the last few years the IAF has devoted the bulk of its procurement funds to prepare for an attack on Iran's nuclear and ballistic missile facilities. Generals and Israeli leaders have openly declared that the tens of billions



Mossad head Meir Dagan

of shekels spent are to extend its reach for just this possibility.

Iran has warned Israel against any military attack on its nuclear sites, saying Israel would pay a very heavy price if it did.

Most analysts agree that any attack would create widespread problems across the globe.

P IRAN? ing Intel Wars

CIA reject claim that it is conducting secret reconnaissance missions inside Iran but rumours persist...

The *New Yorker* magazine's award-winning reporter Seymour Hersh, claimed that US Special Forces have been conducting secret reconnaissance missions inside Iran since mid-2004, gathering information on weapons and nuclear facilities. The data is allegedly being used to compile a list of targets for air strikes and commando raids. Hersh said the operations have been authorised in order to prevent similar embarrassment in the wake of no WMD being found in Iraq.

According to Hersh, President George W. Bush himself green-lighted the secret reconnaissance missions. A list of between 26-36 suspected sites has already been drawn up. The claims were rejected immediately by the US Department of Defense.

Hersh, who played a significant role in exposing prisoner abuse at Abu Ghraib prison in Iraq, was repeatedly told by intelligence and military sources that "the next strategic target was Iran." Besides the Iran operation, US Special Forces are supposedly engaged in covert operations against suspected terrorist targets in as many as ten nations in the Middle East and South Asia, the *New Yorker* said.

By referring to "military" rather than "intelligence" operations, Hersh claimed that Washington could evade legal restrictions imposed on the CIA's covert activities overseas. "The goal is to identify and isolate three dozen, and perhaps more, such targets that could be destroyed by precision strikes and short-term commando raids," said Hersh. ➤



Hersh claims covert teams of US Special Forces have been operating inside Iran, but Eye Spy has seen no information that could corroborate this. A constant monitoring of nuclear sites, and at least three yet-to-be-disclosed areas, is being conducted by surveillance satellites situated over Iran



Nitepalm Palm 4 *nitepalm*

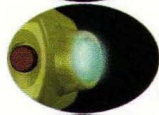
Made by professionals for professionals. The Nightpalm4 multifunctional torch is a unique device that throws a beam of light 100 feet through a fish-eye lens. It is one of four functions that also incorporates an emergency flashing signal that can be seen two miles away - ideal for signalling or in crisis situations. It has an on-location button providing soft light that lasts for an amazing one year so you can always locate it in your tool kit.

The normal torch functions can be used for over an astonishing 40 hours powered by a standard 9v battery (included). It works under 15ft of water and has an attachment for belts or headware.

Whether you work in the trade or not, carry the Nightpalm4 at all times. Its small dimensions belie its power and sturdiness.



Off



Location
Light



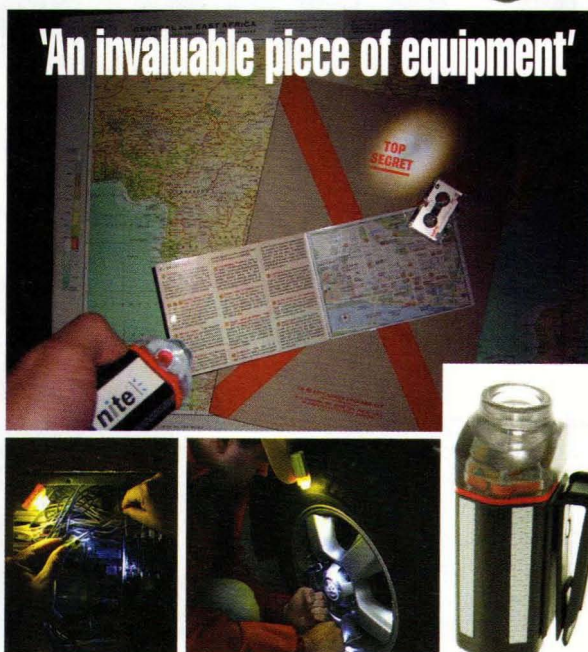
High
Beam



Emergency
Flashing
Signal

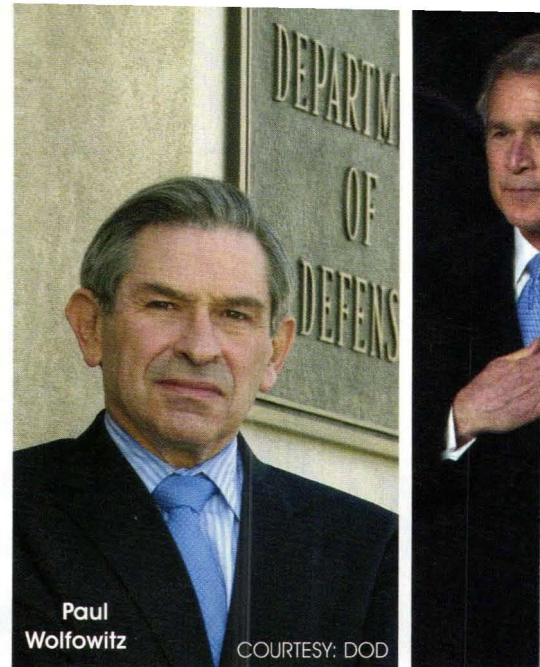


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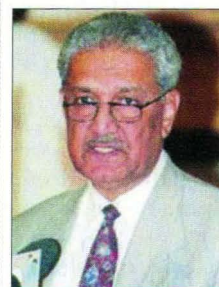
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Paul
Wolfowitz

COURTESY: DOD

targets inside Iran. Hersh also believes Pakistani scientists are providing information to the United States that is penetrating eastern Iran searching for underground nuclear installations. In return, Pakistan's President Pervez Musharraf has received assurances that his government will not have to turn over Abdul Qadeer Khan, the father of Pakistan's atomic bomb, to face questioning about his role in selling nuclear secrets to Iran, Libya and North Korea, reports Reuters. This seems strange as President Musharraf has consistently denied US intelligence access to Khan. Iran has thus far refused to dismantle its nuclear programme, which it insists is legal and is intended solely for civilian purposes.



Abdul Qadeer Khan

White House Communications Director Dan Bartlett said the article was riddled with inaccuracies and that some of the conclusions he's drawing are based

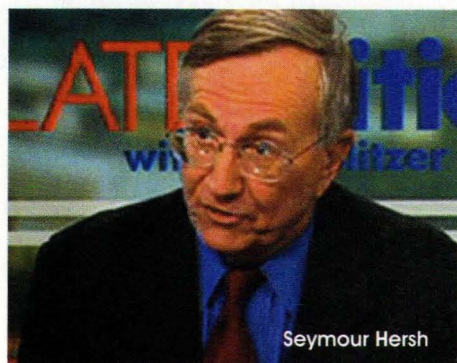
on fact. "We're working with our European allies to help convince the Iranian government to not pursue weapons of mass destruction, particularly nuclear weapons. We'll continue to work through the IAEA protocol to do just that," Bartlett said. "We obviously have a concern about Iran. The whole world has a concern about Iran."

Hersh believes Washington is sceptical about Europe's attempt to negotiate with Iran. "The next step is Iran. It's definitely there. They're definitely planning."

**STATEMENT FROM PENTAGON
SPOKESMAN LAWRENCE DIRITA ON
LATEST SEYMOUR HERSH ARTICLE:**

'The Iranian regime's apparent nuclear ambitions and its demonstrated support for terrorist organisations is a global challenge

NEXT STOP IRAN?



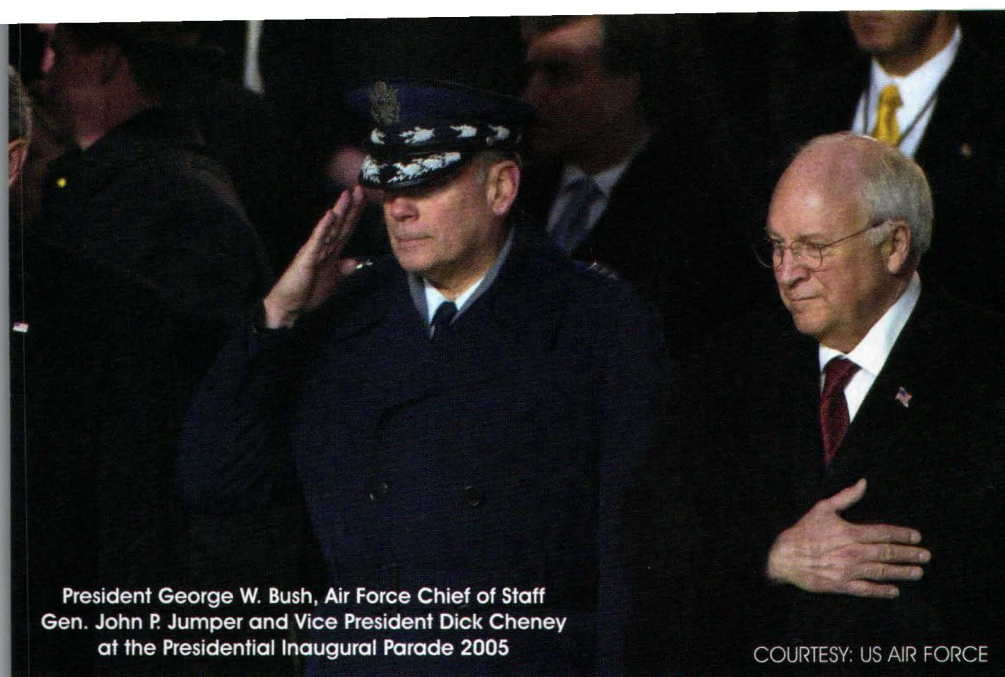
Seymour Hersh

"This is a war against terrorism, and Iraq, is just one campaign," a former high-level government intelligence official told Hersh. "The Bush administration is looking at this as a huge war zone. Next, we're going to have the Iranian campaign. We've declared war and the bad guys,

wherever they are, are the enemy. This is the last hurrah - we want to come out of this saying we won the war on terrorism," the official said.

The *New Yorker* also claimed a senior government consultant with close ties with the Pentagon - especially Secretary of Defense Donald Rumsfeld, and his deputy Paul Wolfowitz, admitted that Washington wants to go into Iran and destroy as much of the military infrastructure and possible. "The planning for Iran is going ahead even though Iraq is a mess," Hersh said. "I think they really think there's a chance to do something in Iran, perhaps by summer, to get the intelligence on the sites. The guys on the inside really want to do this." The magazine said Rumsfeld and Wolfowitz believe that Iran's clerical regime could not withstand a military blow and would collapse.

The Mossad have also allegedly supplied the CIA with potential weapons



President George W. Bush, Air Force Chief of Staff Gen. John P. Jumper and Vice President Dick Cheney at the Presidential Inaugural Parade 2005

COURTESY: US AIR FORCE

and Israel, government or non-government, do not exist. Here, Mr Hersh is building on links created by the soft bigotry of some conspiracy theorists. This reflects poorly on Mr Hersh and the *New Yorker*.

- Mr Hersh cannot even keep track of his own wanderings. At one point in his article, he makes the outlandish assertion that the military operations he describes are so secret that the operations are being kept secret even from US military Combatant Commanders. Mr Hersh later states, though, that the locus of this super-secret activity is at the US Central Command headquarters, evidently without the knowledge of the commander if Mr Hersh is to be believed.

'By his own admission, Mr Hersh evidently is working on an "alternative history" novel. He is well along in that work, given the high quality of "alternative present" that he has developed in several recent articles.

'Mr Hersh's preference for single, anonymous, unofficial sources for his most fantastic claims makes it difficult to parse his discussion of Defense Department operations.

'Finally, the views and policies Mr Hersh ascribes to Secretary Rumsfeld, Deputy Secretary Wolfowitz, Under Secretary Feith, and other Department of Defense officials do not reflect their public or private comments or administration policy.

that deserves much more serious treatment than Seymour Hersh provides in the New Yorker article titled 'The Coming Wars'. Mr Hersh's article is so riddled with errors of fundamental fact that the credibility of his entire piece is destroyed.

'Mr Hersh's source(s) feed him with rumour, innuendo, and assertions about meetings that never happened, programmes that do not exist, and statements by officials that were never made.

'A sampling from this article alone includes:

- The post-election meeting he describes between the Secretary of Defense and the Joint Chiefs of Staff did not happen.

- The only civilians in the chain-of-command are the President and the Secretary of Defense, despite Mr Hersh's confident assertion that the chain of command now includes two Department policy officials. His assertion is outrageous, and constitutionally specious.

- Arrangements Mr Hersh alleges between Under Secretary Douglas Feith



"The planning for Iran is going ahead even though Iraq is a mess," Hersh said. A claim vehemently denied by the Pentagon

COURTESY: US ARMY

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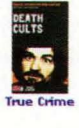
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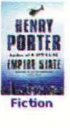
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*Reinventing the
Spying Game with
Micro Espionage*

In the last edition of Eye Spy we took a candid look at Unmanned Aerial Vehicles (UAVs) and how they are changing the Surveillance Rule Book. Now a new technology loosely connected to UAVs is about to change the Spying Game...

COURTESY: SANDIA NATIONAL LABORATORIES

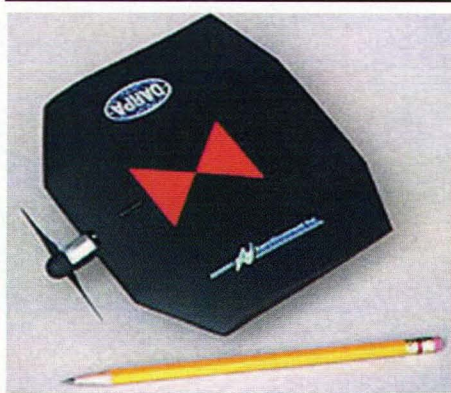


SPECIAL FEATURE

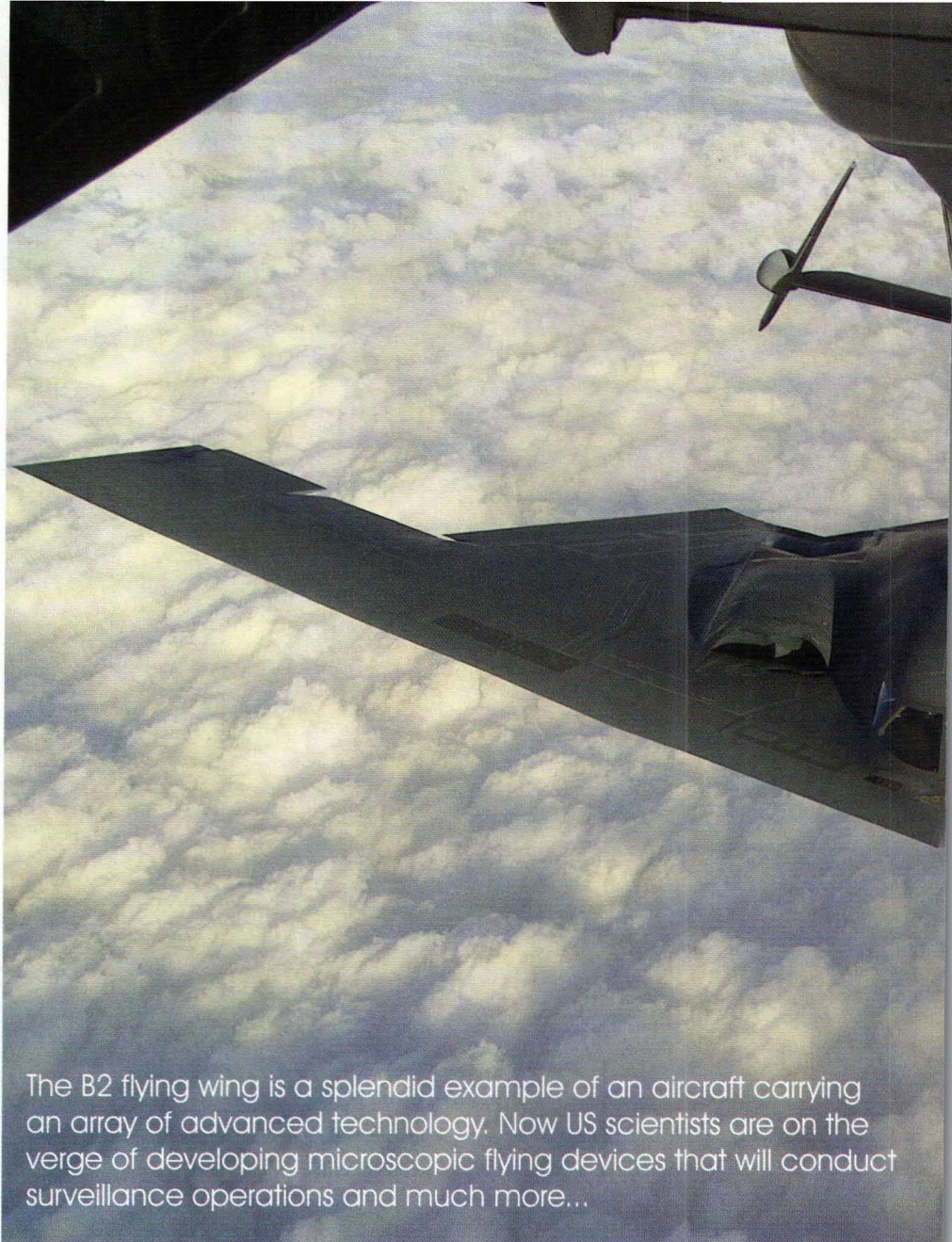
In a small room in Langley, CIA analysts digest a plethora of top secret projects that are on the verge of moving espionage techniques and counterterrorism operations well into the future. Indeed, only a few years ago some of the projects and technology available today, would have been more at home placed on sets built for Hollywood's science fiction movie industry. Today, creators of some quite astonishing technology are on the verge of staggering inventions that will almost certainly re-invent the spying game.

In the last edition of Eye Spy, we examined how Unmanned Aerial Vehicles (UAVs) are becoming a common sight in our skies, especially over war zones. They are also being used commercially by all manner of companies and scientists, who now recognise that they offer cheap and alternative methods for surveillance. These remarkable creations have the ability to perform a range of tasks from striking terrorist safe houses, to 24-hour surveillance on oil pipe lines. UAVs come in all shapes and sizes and have various power sources. This often governs just how long the device can stay aloft and the type of task each device can undertake.

Military and government contract companies are not the only organisations to realise the unique potential of UAVs. Those charged with intelligence gathering of a different kind are now taking a serious interest in unmanned surveillance devices. Imagine a spying device that not only flies like an insect, but is as small as an insect. Undetected

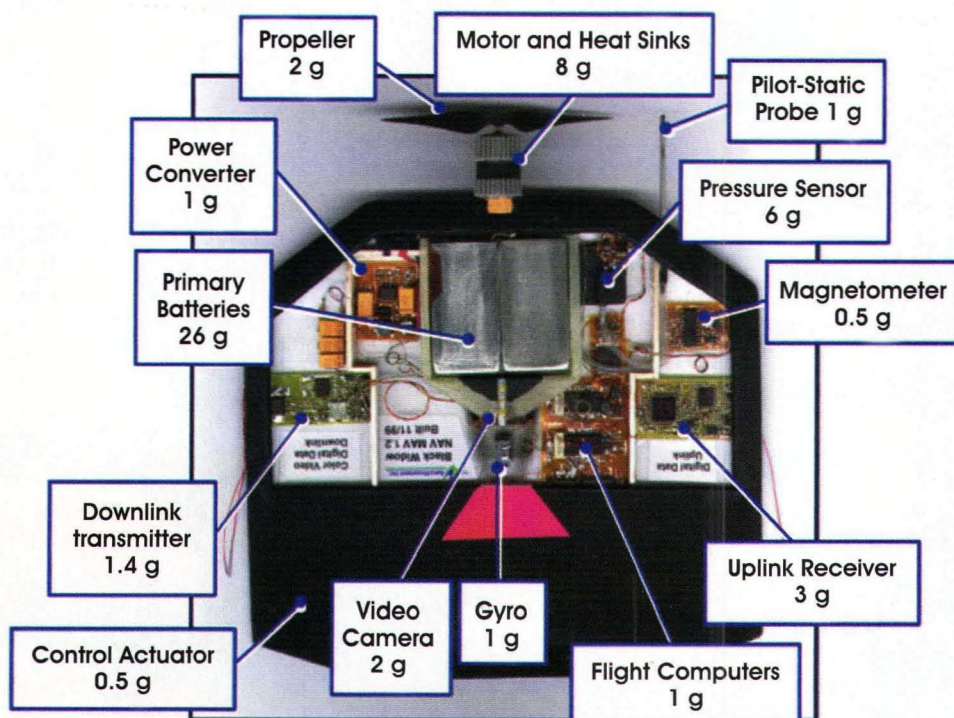


The tiny Black Widow UAV



The B2 flying wing is a splendid example of an aircraft carrying an array of advanced technology. Now US scientists are on the verge of developing microscopic flying devices that will conduct surveillance operations and much more...

The pioneering DARPA-backed AeroVironment MAV Black Widow project is already 20-years old. The device weighed just two ounces and had a six-inch wingspan



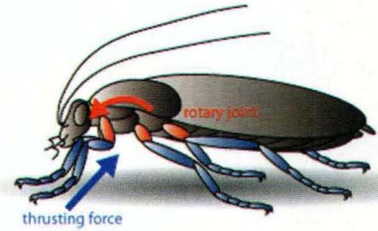
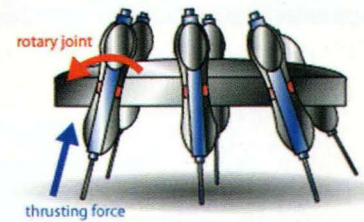
COURTESY: USAF



MicroFly

and almost silent, the world's most secure buildings would be vulnerable. Access to top secret meetings and information would be at the fingertips of the device's user. No longer is this science fiction, but rather science fact.

Creating micro flying devices has been hindered by our inability to mimic the flight characteristics of insects. Some of the first aviators tried to fly by duplicating the complex and incredibly quick motion of flapping wings. The inventor would place himself in an



Mimicking the movement of a fly

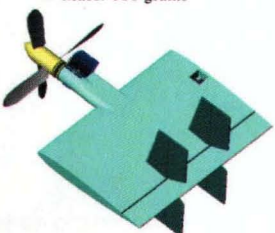
DIAGRAM: JEN PHILPOT

awkward wooden contraption and set in motion a couple of lifelike wings - he usually ended up peddling over a cliff edge. All such efforts failed, and many pioneers lost their lives. It's ironic therefore that over a hundred years later scientists in America and England are confident that they are now beginning to understand the incredible 'flapping wing motion' of bees, flies and butterflies. Eagle-eyed watchers from the world of intelligence recognise that if scientists now understand the technology, there is a real possibility it could be duplicated.

The CIA and other US defence agencies are working alongside a number of groups linked to this research. A prototype flying drone measuring less than half-an-inch has already been built, and there are plans afoot to build even smaller drones. One promising invention flies by flapping two micro-thin membranes (wings). Sceptics believe it would be impossible to attach even the slightest weight to this device (cameras, audio etc.), but scientists point out that many tiny insects can often carry several times their body weight. But there are major drawbacks. UAVs such as the USAF Predator drone are huge in

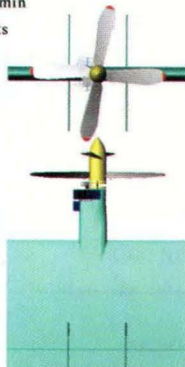
Features

- All electric aircraft
- 3 Soft lithium batteries
- Single 32-gram motor
- 7.1" dia. coaxial rotors
- Gyros on all 3 axes
- Fixed-pitch props
- Mass: 180 grams

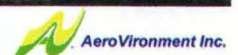
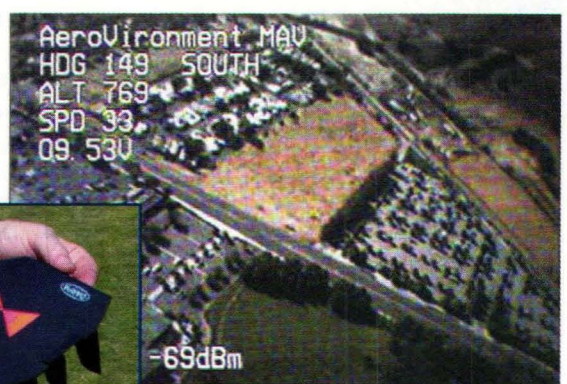


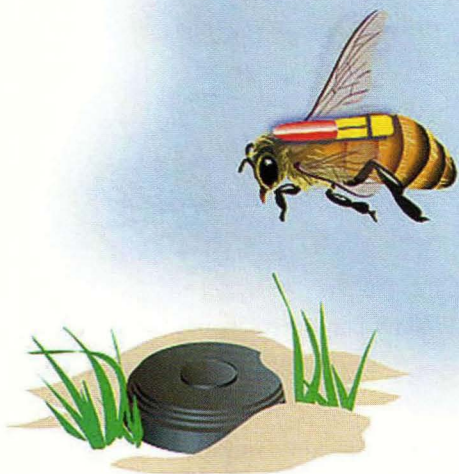
Performance

- Hover endurance: 7.3 min
- Cruise endurance: 13.2 min
- Hover power: 24.5 Watts



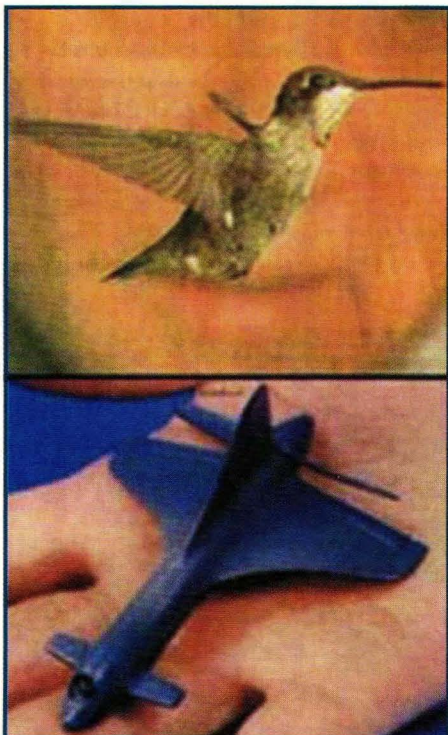
Another AeroVironment project. Note the real-time video footage provided by this MAV





comparison and can carry sufficient fuel and surveillance equipment for hours. Some heavier UAVs flying today can even cope with adverse weather conditions. How could scientists fit a power source to such a miniature UAV. Equally important, could it cope with even the slightest draft an open office door might create? These are just some of the questions being raised by government scientists intent on creating artificial spies.

In the early 1990s, DARPA (Defense Advanced Research Projects Agency) the central research and development organisation for the US Department of Defense (DoD), held a workshop on Micro Air Vehicles, or MAV for short. This followed much success with a



DARPA-backed project in 1986. AeroVironment's award-winning MAV Black Widow UAV, had just a six-inch wingspan and weighed only two ounces. Other devices approximated the size of a hummingbird, but interestingly, one MAV measured less than a centimetre. A DARPA statement said it wanted to create an MAV the size of a bee with "flapping wings." Few scientists believed such a feat was possible.

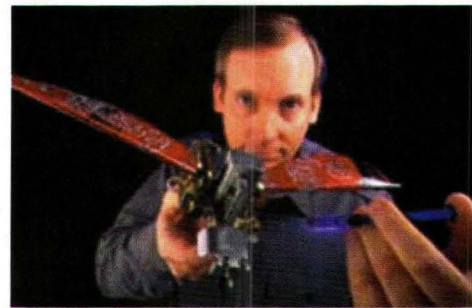
DARPA spent over \$30 million to develop a number of the devices. Parameters were set. One project was proposed to design an MAV less than six inches in diameter. Scientists were confident that such a device could be built, but an intel requirement said it should be able to fly at least 10 kilometres at speeds up to 80 kilometres per hour for missions up to two hours long.

ACCESS ALL AREAS

By the late 1990s, analysts at the CIA were as enthusiastic as their counterparts in the US military about micro sky spies. Reconnaissance imagery obtained by UAVs was splendid, and when one researcher decided that it was possible to arm the drone, its usefulness was increased. But America's premier spy agency wanted more than just a roaming surveillance device. They wanted to create a micro spy that could genuinely access all areas. With the technology in place to build tiny UAVs, the CIA set about locating advanced research companies light-years ahead in miniature motors, one-millimetre-wide cameras and delicate moving parts

A Hummingbird MAV prototype

This US research project using microscopic technology (radiofrequency tags, electronics software), enables scientists to determine a bee's ability to detect small amounts of explosives found in landmines

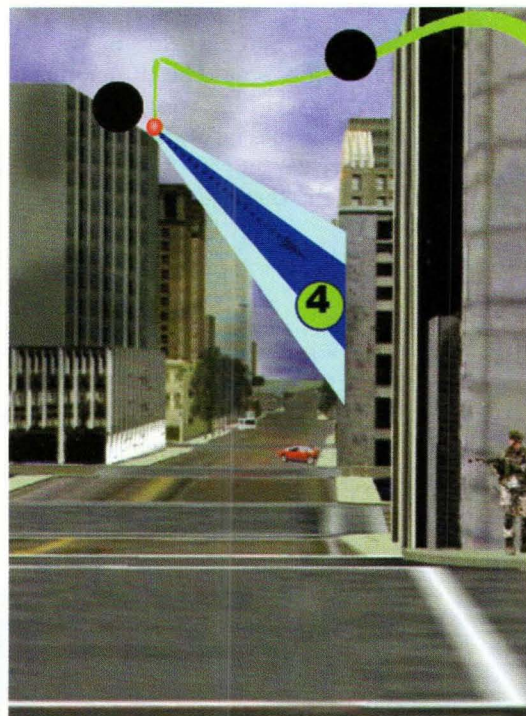


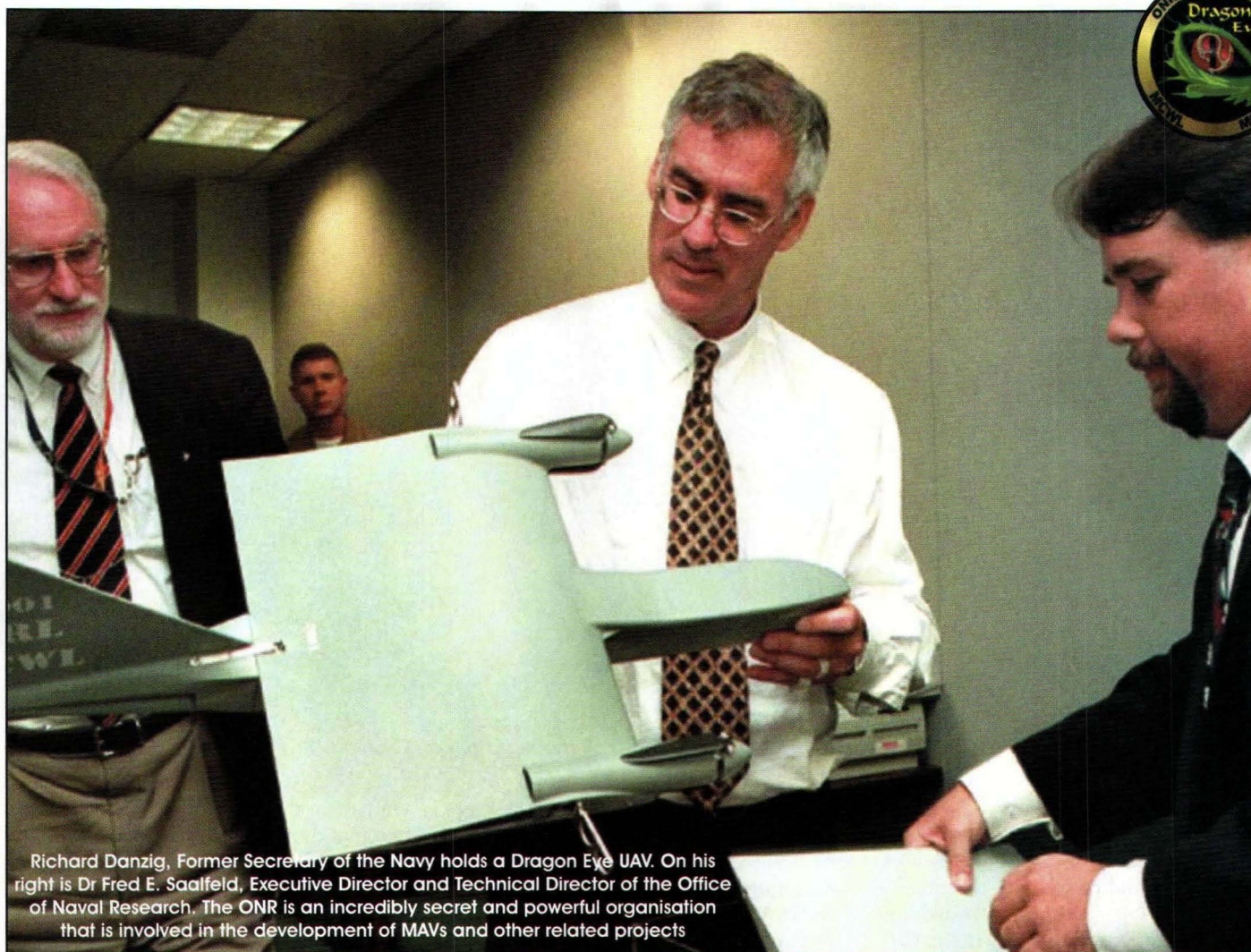
MicroFlyer

small enough to attach to a drone the size of a bee.

RMB Miniature Bearings of Switzerland, manufacture some of the world's smallest electric motors, that weigh about one third of a gram. Scientists at MIT (Massachusetts Institute of Technology), are developing a microscopic silicon carbide jet engine that is only 10mm across, and just 3mm wide. It will provide 20 watts of power - very suitable for an MAV.

But what of the actually power supply? MIT's button-sized jet engine needs fuel! Researchers believe the problem could be solved by using liquid hydrocarbons. One gram of petrol would provide approximately 13 watt-hours of energy. However, one gram of a lithium battery will give you only 0.3 watt-hours, while a NiCad battery will provide even less. Scientists are convinced that an MAV powered by petrol or kerosene will travel much further



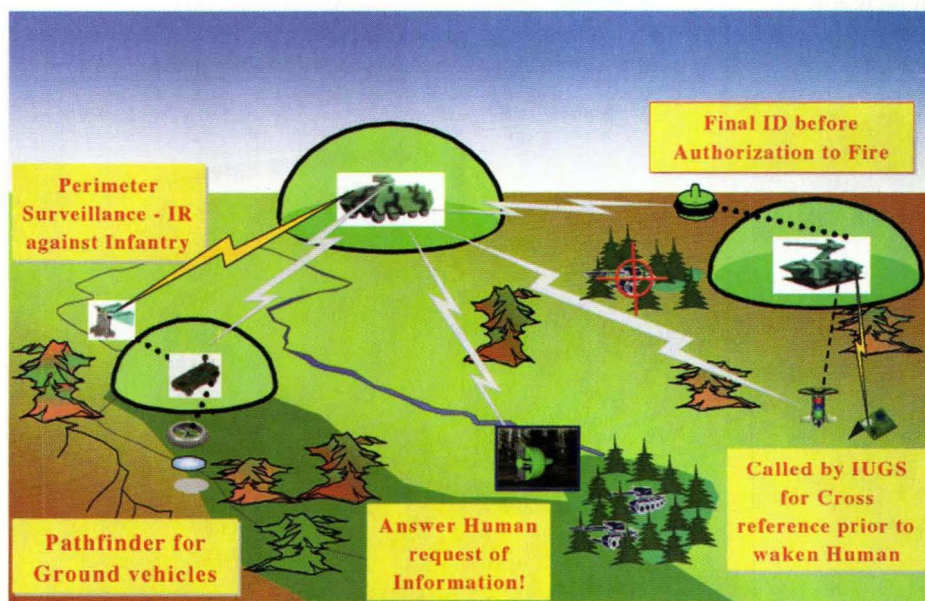
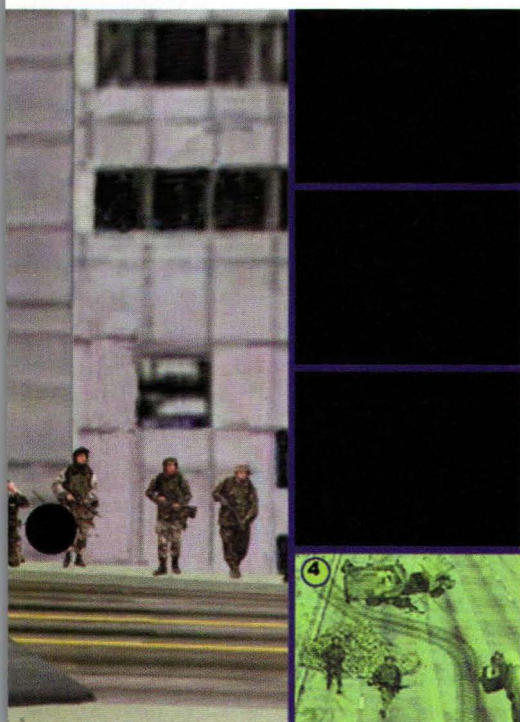


Richard Danzig, Former Secretary of the Navy holds a Dragon Eye UAV. On his right is Dr Fred E. Saalfeld, Executive Director and Technical Director of the Office of Naval Research. The ONR is an incredibly secret and powerful organisation that is involved in the development of MAVs and other related projects

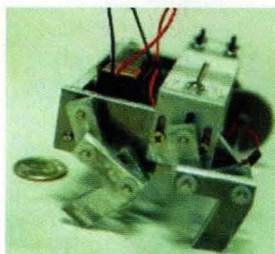
than one powered by batteries. Few would argue that this could change in coming years as man and machine edge ever closer. Indeed, some would say that Battlefield Robotics and Unmanned Vehicles at Georgia Tech Research

Institute are as close as any company to linking the flight characteristics of an insect with man-made technology. They are developing an MAV with a very different power supply - a chemical muscle. The principle is simple, human

muscles run on sugar, so why can't MAVs? Yet even equipped with all this micro technology, the device would need an electrical power to transmit the video signal back to base.



These DARPA diagrams show MAVs used in a two combat zones - a city area and battlefield arena. The troops (left) use a tiny MAV to fly over the building to track enemy positions with no risk to human life. In the diagram above, several ground and airborne MAVs can be seen working together to resist an enemy attack



This tiny 'walking robot' is another example of a research project trying to mimic insects

The US Office of Naval Research (ONR), has some of the most brilliant research scientists in the world. Eye Spy has inside

knowledge of a spy drone that has already been built that is even smaller than a penny. Details of the top secret project, initially dubbed MicroFly, are available, but as new variants are tested, the project has moved on. It is at the vanguard of a field known as biomimetics - basically meaning biological systems are more flexible and adaptable than man-made laboratory creations.

SMART DUST

The original device was approximately just eight millimetres long and was always intended to carry a transmitter, camera and a microprocessor. Tests have taken place and proven hugely successful. The ONR-backed project uses some of the technology employed in the CIA variant, but instead of using fuel to power the drone, this device absorbs light. Solar power paper-thin stainless steel bodies floated on Mylar wings.

Ron Fearing, a UC Berkeley electrical engineer and a brilliant robotics engineer was approached. "What we thought conceptually would be a very simple thing is conceptually a very difficult thing," says Fearing. "It's been a lot of hard work and a lot of finding things out

the hard way. Everything along the way - from the joints to the structure - had to be designed completely from scratch." Adopting the same 'flapping wing' technology has not been easy, but instead of using two wings, this tiny device has four. Piezoelectric actuators flap its four wings an astonishing 180 times a second creating backspin and air vortices that create lift. Like most insects, it can take off, move in any direction, and is intended to change course in just 30-thousandths of a second. The thin membrane wings have incredibly small computer chips referred to as 'smart dust' - micro-sized silicon motes that pack computing power, communicators and sensors. It's an ideal combination.

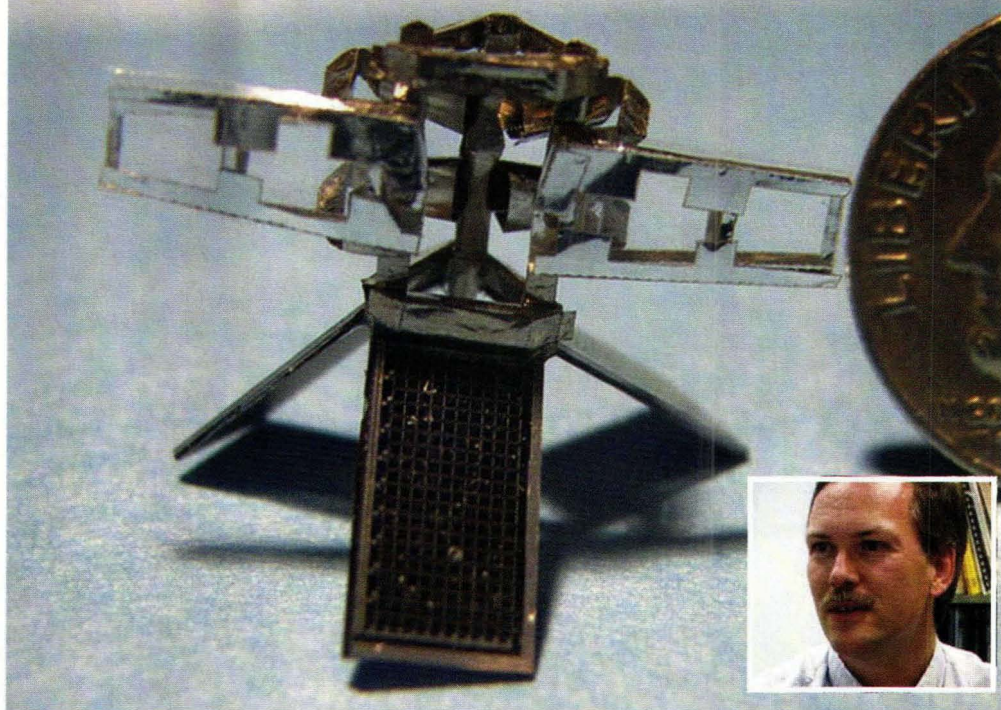
One major drawback early in the project was that the wings didn't provide enough lift to get it airborne - a fine tether was used. One variant is designed to fly at an altitude of 10ft and has a range of just under two miles. It is ideal for office or building espionage.

"Smart dust is like the brain, and we're building the body," said Richard Yeh, a graduate student researcher specialising in microrobotics who is also working on the smart dust project.

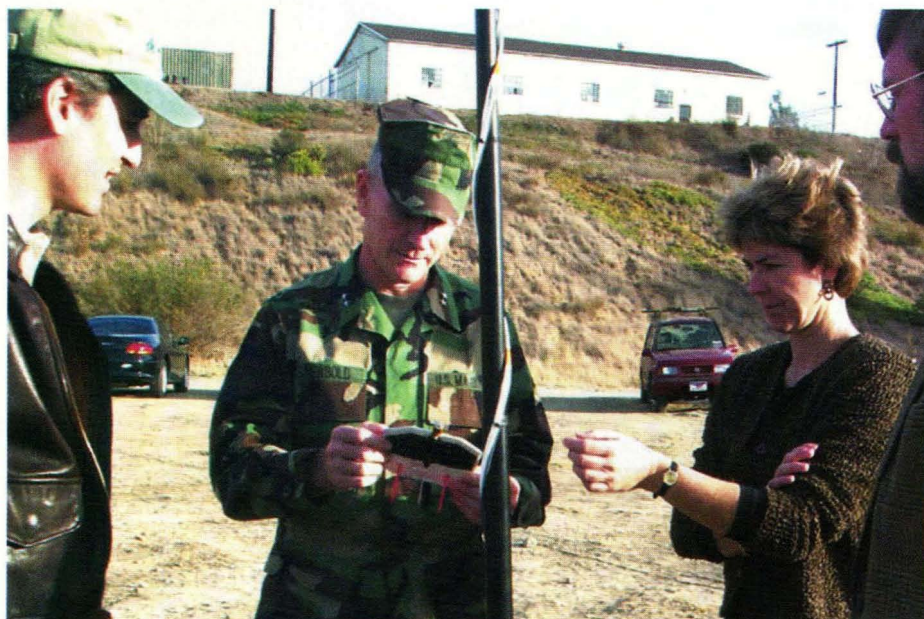
Smart Dust was the brainchild of Kristofer Pister (left) an associate professor of electrical engineering and computer science at UC Berkeley. The original idea was to pack sophisticated sensors, tiny computers and wireless communicators onto minuscule 'motes' of silicon light enough to remain suspended in air for hours at a time. As the motes drift on the wind, they can monitor the environment for light, sound, temperature, chemical composition and a wide range of other information, and beam that data back to a base station miles away. Pister submitted a proposal to DARPA, which agreed to provide about \$1.2 million over three years to fund the project.

That was in 1997 and the project has moved on dramatically. Pister said he came up with the idea for smart dust at a conference on future technology. "I realised that sensors, computers and

COURTESY: RON FEARING



A mock-up of Ron Fearing's tiny invention

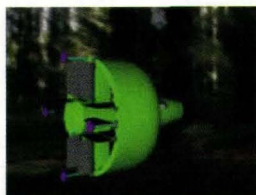
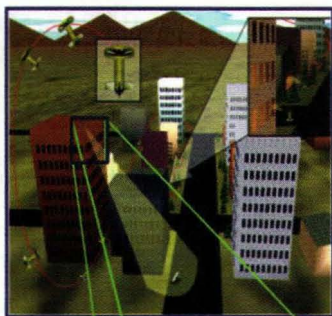


US researchers and army officials gather to test fly an MAV

COURTESY: DARPA



Ducted fan MAV

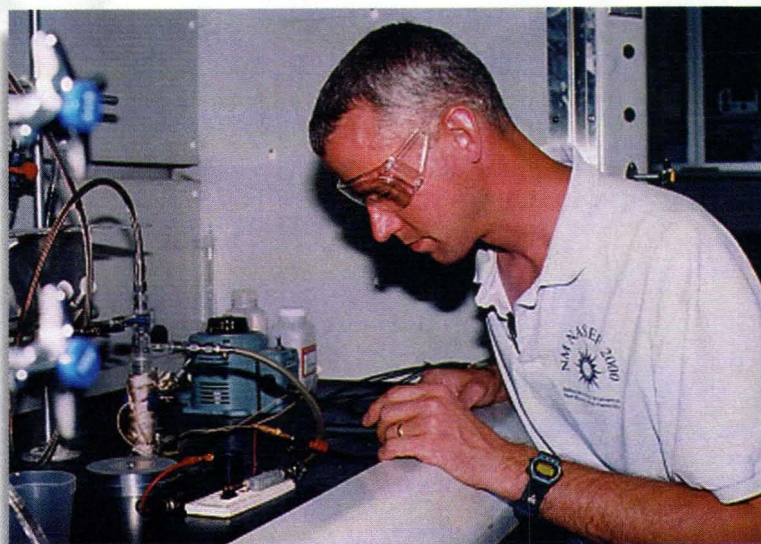


communications were going to shrink down to ridiculously small sizes," he said. "So why not package them into a single, tiny device?" Why not indeed!

It seems inevitable that the technology behind Smart Dust and MAVs will merge to form a stunning espionage tool. Of course, they could also sniff out landmines, or chemical or biological weapons. Or they can fly into burning buildings to look for trapped people.

Another Pentagon-backed project that is intended to augment technology used on miniature drones has been dubbed 'Robopike'. Scientists are studying the fluid mechanics that let fish propel themselves almost

effortlessly through water. "Biomimetic discoveries could bring tremendous advancements to the study of aero and fluid dynamics," said Promode Bandyopadhyay, head of robotics at the Office of Naval Research. The project is studying how bats and insects fly in the dark. If this is achieved, it could be applied to projects like MicroFly and lead to an amazing 'on-board radar'. "The Navy is not trying to build a robotic zoo. What we want to do is distil the science and apply it to existing platforms," said Bandyopadhyay. "MicroFly can be used for reconnaissance and



scouting... one day you could have a swarm of them in a battlefield."

If, and when the project is finalised, it is almost certain that this and other variants will simply disappear into America's astonishing array of Black Programmes. Essentially the US has back-engineered nature to create an espionage tool that the producers in Hollywood could hardly ever have imagined. One thing is absolutely certain, there will be attempts by foreign agents to acquire the secrets of America's burgeoning micro spy technology... watch this space

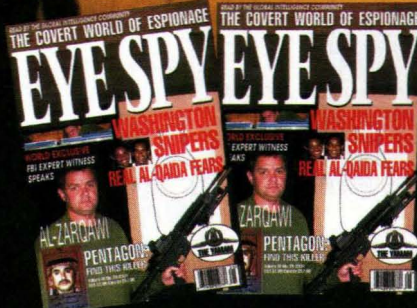
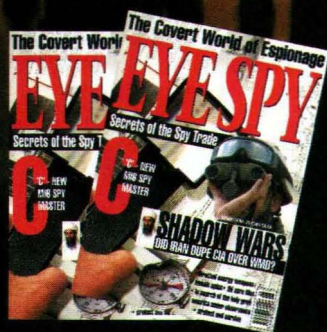
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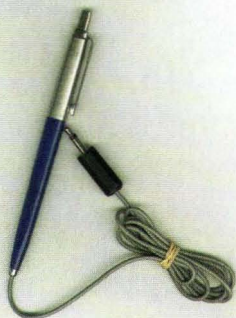
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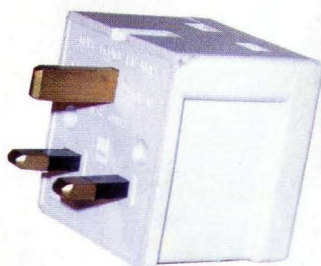
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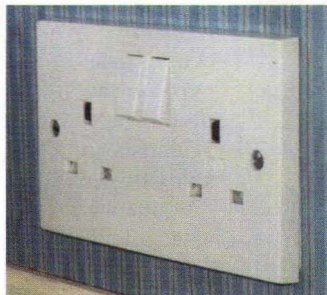
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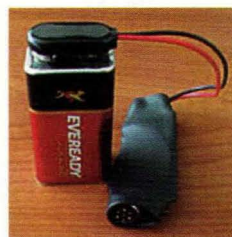
EMERGENCY MOBILE PHONE CHARGER

This model uses the widely available AAA-type battery, stocked by any newsagent, chemist, petrol station or other high street outlet. Extra small keyring that fits anywhere. 4 AAA Batteries included providing 9 hours standby/1 hour talktime. This model works with all major phone types Nokia, Siemens, Eriksson, Motorola.



Order code: MS106 UK £10.50
USA \$20.00 ROW £12.50

UHF BODY WORN TRANSMITTER



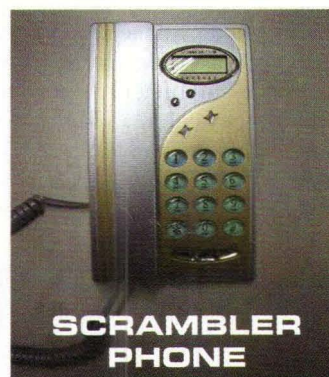
For body or for a room this UHF miniature transmitter is like a capsule form. The 6mm diameter microphone can even be pushed under door gaps to listen to sounds in another room.

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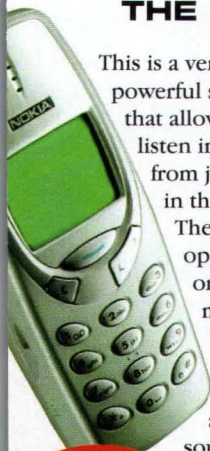
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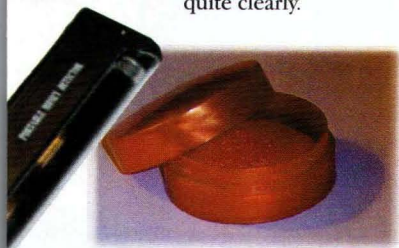
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This professional kit is ideal for listening through walls, doors, floors or windows. A unique device uses a special 'contact microphone' which detects the slightest vibration. The device is so small it fits comfortably into a shirt or jacket. Comes complete with a high-quality earphone. A socket is included for recording onto a tape. Powered by a 9 volt battery (included), this useful unit comes with battery and smart carry case.

A high quality piece of kit.



Order Code: LS-TWL UK £235.00
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PINHOLE BOARD CAMERAS



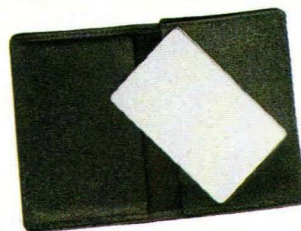
A 12v PCB board camera with pinhole lens and audio. Easy to fit into most objects, air vents, speaker grills etc. These cameras are low lux and CCD - not the cheaper CMOS variant. Measures just 15 x 32 x 32mm

B & W 380-line board camera
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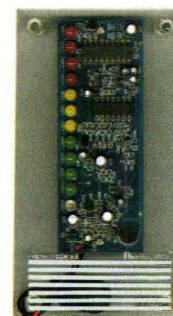


This telephone/fax tap defeat is very clever and will defeat any wiretap or bug that could be wired to your phone line. The machine will also defeat any voice activated phone recorders

by sending constant pulses of noise. The TD1 has a LCD line condition display and LED's to indicate the mode setting. Offers the following features: turn on or off any wiretap or bug, any phone recorder controlled by line voltage, any phone recorder controlled by voice activation.

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EXECUTIVE TRUTH MACHINE

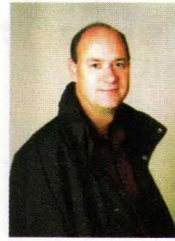


Executive Truth Machine - combines psychological stress evaluator (PSE) and voice stress analyser (VSA). Results shown on a column of LED lights*

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UK £32.00 USA \$65.00 ROW
£35.00

* Eye Spy is not responsible for any results achieved by this machine

TRADECRAFT Tag Spray



USED BY BRITISH INTELLIGENCE TO IDENTIFY SPIES AND THEIR SECRET ROUTES TO DEAD LETTER BOXES

Peter Jenkins reveals a cunning technique used by counter-espionage agents during the Cold War in order to identify enemy spies when they visited dead letter boxes (DLB's)

I imagine a scenario whereby a spy visits a dead letter box in a forest or graveyard in order to leave behind a package for a colleague to collect. Unbeknown to the spy, the intelligence services are already aware of the DLB and that it is operational. However, they have yet to identify the spy who will endeavour to retrieve the package.

The agent has deliberately chosen an area where total surveillance of the DLB is impossible and access to the drop site are numerous. In order to quietly identify the collecting agent, all approaches to and from the drop must be constantly monitored, an unlikely task given limited resources. How are these routes identified?

One very clever and simple method used was to spray the ground and immediate area around the DLB with a unique smelling 'tag' spray. On visiting the DLB, the agent would contaminate his shoes and trousers with the scent

After collecting the package, a handler with a sniffer dog would immediately visit the DLB site and pick up the scent, now embedded on the spy's soles of his shoes. The dog would lead the way and so the route of the agent would be identified. If the agent completed his journey on foot,

the dog would clearly be able to track him to his final location. If the agent used transport, it is likely the scent would end where his shoes left the ground, thus identifying his secret parking place. Vehicle tracks and other useful forensic information could then be gleaned. Once the DLB route is identified, the counter-espionage teams could place it under 24-hour surveillance, knowing the agent would in all probability use this escape route again. Photographs of the agent could then be taken and additional investigation would lead to his home, workplace and colleagues.

This method has also been used for spraying car door handles so contaminating a spy's hand. Rather than deploy a surveillance team against an aware target, a dog would then be able to identify that person and hopefully his route.

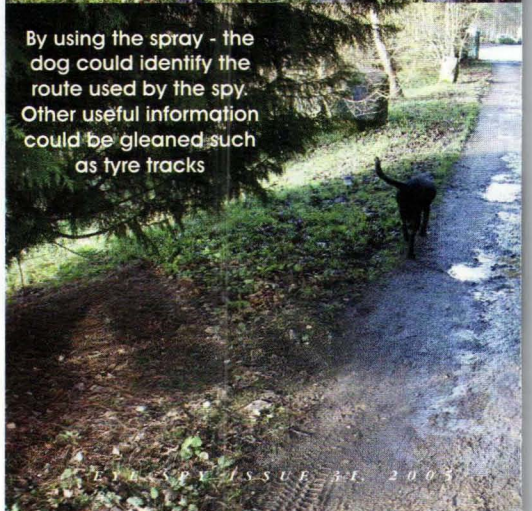
I did make enquiries about the British made spray, but my intelligence source was adamant that the information remain secret. He did admit the spray was undetectable by humans.

Watchful spies had a counter-measure - simply by changing shoes often.

Remotely Guided Animals

A secret US intelligence project is underway that will enable human operators to remotely guide via wireless controls instrumented animals, specifically rats, through a range of terrestrial environments. Few details are currently available but Eye Spy did see a brief overview:

- Employs remotely guided animals in important military, civilian and intelligence operations such as finding buried humans in collapsed structures, locating landmines, using stealth to gain intelligence about explosives, drugs or humans in a building, placing surveillance devices in trees, tunnels or buildings and even for conducting espionage.
- Controls olfactory senses so animals can sniff out explosives and drugs or any other banned chemicals
- Replaces reliance on sniffing dogs at airports or other installations
- Reduces costs linked with building devices or training animals to detect prohibited items

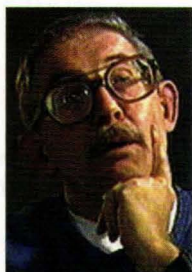


By using the spray - the dog could identify the route used by the spy. Other useful information could be gleaned such as tyre tracks

A SPY RIDDLE

Was KGB Double Agent Betrayed by Writer?

Victor Cherkashin, KGB handler to two of America's most notorious traitors, has claimed that in 1985 he was tipped off by a journalist about Oleg Gordievsky, the hugely important Russian double agent who supplied secrets to MI6 for years. Though the KGB had its suspicions over Mr Gordievsky, its most senior officer in London, Moscow failed to uncover the truth until it was too late. MI6 spectacularly managed to smuggle him across the Finnish border in the boot of a car. It has always been suspected that Gordievsky was betrayed by CIA officer Aldrich Ames, who was under Cherkashin's 'wing'.



Aldrich Ames

In 1985 Ames simply walked into the Soviet Embassy in Washington DC and offered secrets for cash. He also recruited Russians for the CIA as double agents. Ames headed the CIA's Soviet counterintelligence desk and was in an

ideal position to pass on valuable secrets about US spying operations against Moscow. For nine years he sold many of the agency's most sensitive secrets, including the identity of several US agents - many were executed.

Cherkashin, head of the KGB's First Directorate, says that the Ames was not central to the exposure of Gordievsky. He was supposedly tipped-off about Gordievsky by a Washington DC-based British journalist. "The journalist was not a proper paid agent but a friend of the KGB," he said. The claims are made in a new book, *Spy Handler* co-authored by Mr Cherkashin, a 40-year intelligence veteran and Gregory Feifer, a



Aldrich Ames' former home in Washington

scholar in Russian studies and former Radio Free Europe Moscow correspondent. In the book, Cherkashin refers to the journalist as a "he", but he has been careful not to identify the journalist. This statement has baffled several intelligence writers, who have since mentioned Australian-born Claudia Wright. She occasionally wrote articles for the *New Statesman* and is suspected of having relations with the KGB. Her articles often had an anti-American slant and it is believed she was under observance by the CIA.

In 1994, Yuri Shvets a junior KGB officer in the Washington KGB residence, said he recruited a journalist codenamed '*Sputnitsa*' in the 1980s, whom Cherkashin reportedly identified as Claudia Wright. She supposedly died in 1991, but Eye Spy has learned she is still alive. The allegation has been denied by Cherkashin.

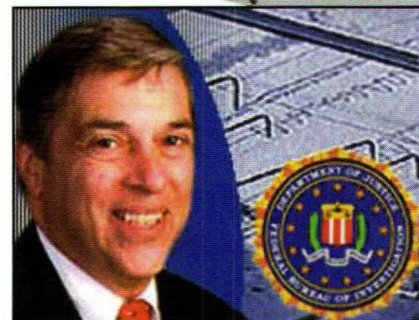
AGENT OF INFLUENCE

The authors refer to the journalist as a so-called "agent of influence" a description used in the intelligence world that describes a person in a position to spread propaganda and disinformation, though not actually in the paid service of an agency.

Cherkashin said: "I [already] knew Gordievsky was a British spy when Ames fingered him, which he did after we asked him to provide more information about the suspected SIS (Secret Intelligence Service/MI6) agent. A Washington-based British journalist who occasionally provided us with information had tipped me off that Gordievsky was spying for the British SIS."

Gordievsky, while acknowledging he does not truly know the identity of the person who betrayed him, is sceptical of the Claudia Wright scenario. Gordievsky said: "How would a journalist ever have known that I was working secretly for MI6? It sounds to me like an attempt by the surviving members of the KGB of the 1980s to spread disinformation." Mr Gordievsky, who still resides in London, believes the KGB may have learned of his MI6 activities from conversations picked up by bugging devices installed in the British Embassy in Moscow.

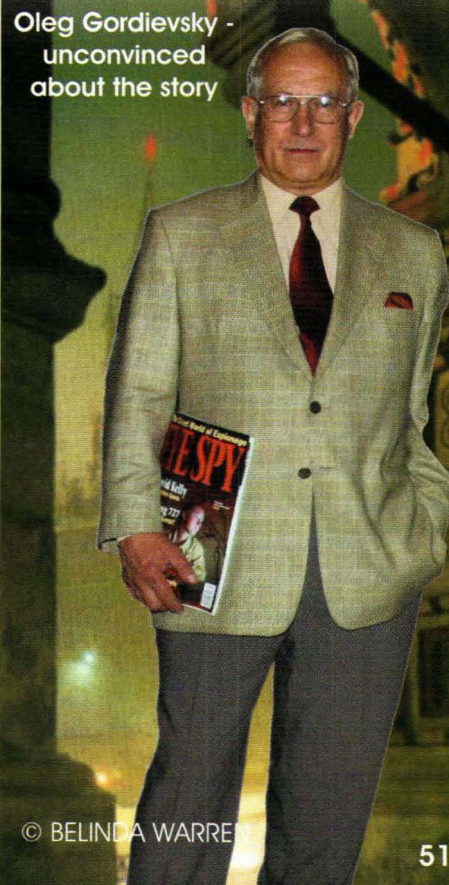
Cherkashin also believes that it is possible the Russians still have at least one agent embedded in US intelligence and still passing on information.



Robert Hanssen

• 1985 was a particularly interesting year for the KGB, for shortly after Aldrich Ames was recruited, Cherkashin received an anonymous letter at his home in Washington DC. The writer offered to supply classified US intelligence documents in return for cash. Over the next few years, the KGB learned of many secret projects, including a secret tunnel built by the CIA that led to the Soviet Embassy in Washington. Cherkashin only learned of the man's identity 16 years later after he was arrested - FBI agent Robert Hanssen.

Oleg Gordievsky -
unconvinced
about the story



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SPECIAL READER OFFER

The CIA's Guantanamo Bay Express

Controversial CIA Flights Revealed as Mystery Jet Traverses the Globe

Journalists from Europe and the United States are continuing to research the background of a shadowy aircraft company that is believed to transport enemy combatants and al-Qaida suspects to destinations across the world. The firm is alleged to have been established by the CIA and its owners are as mysterious as the flights. The CIA was given a presidential

directive under the Clinton administration to move suspects for interrogation or "renditions" as it has been described.

The clandestine nature of the flights is probably due to the fact that the aircraft is often used



Bill Clinton

to fly suspects to countries where interrogation methods are controversial to say the least.

The story of Gulfstream N379P (the tail number has been changed several times) began to emerge as journalists in Sweden were tipped off about its passengers and crew. In 2004, Swedish television described how American intelligence agents arrived in Stockholm on the Gulfstream in December 2001 to take two suspected al-Qaida terrorists to Egypt. The prisoners, who wore hoods, were handcuffed and flown to Cairo where they alleged they were tortured with electric shocks to



their genitals. N379P was then logged in Shannon Ireland and suspicions grew as to its wider intelligence role.

The jet has also been seen on numerous occasions in the UK since 9/11, and its flights in and out of Scotland (Prestwick International Airport) have been described as 'clockwork', though observations have become less frequent since the summer of 2004. The jet has been nicknamed the *Guantanamo Bay Express* by local journalists and is supposedly on long-term lease to the US government.

Intelligence watchers have traced most of its flights in and out of Washington DC (Dulles Airport) where the small jet often begins its journey. Since its 'first' flight in October 2001, the jet has been seen in Islamabad, Karachi, Saudi Arabia, Dubai, Tashkent, Uzbekistan, Baghdad and Kuwait City. ➤

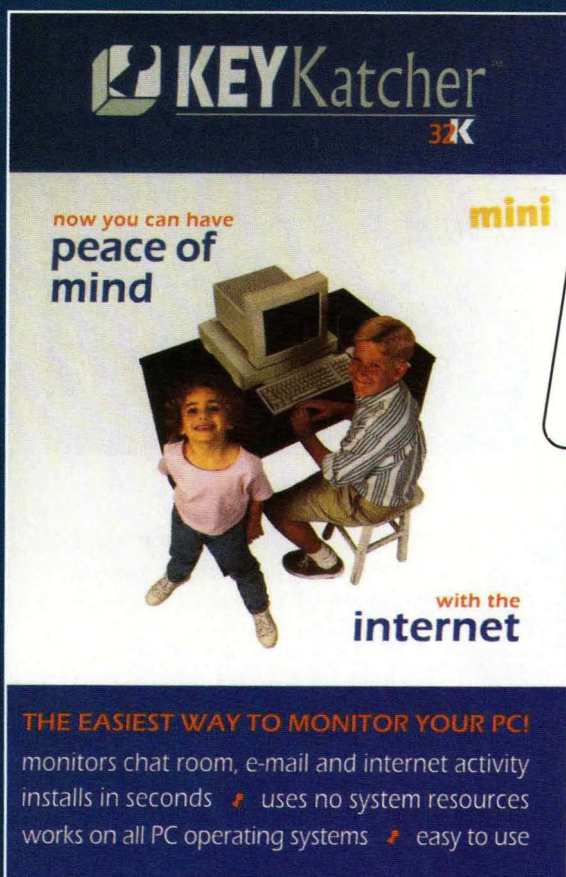
A Soldier surveys the area just outside Camp Delta during a detainee escape exercise in Guantanamo Bay, Cuba. US Army units and members of other services are guarding facilities where detainees in the Global War Against Terrorism are being held

COURTESY: US ARMY

AVAILABLE FROM EYE SPY

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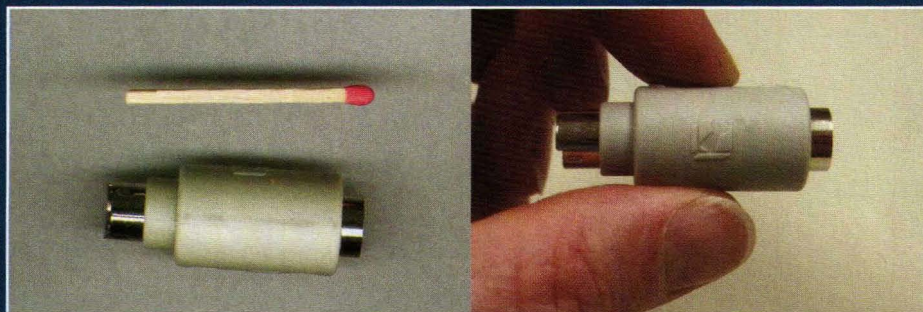
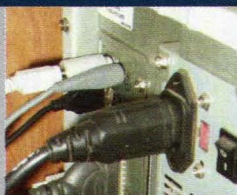
System Requirements

IBM PC compatible computer
(Windows 98, 95, NT Linux)
PS/2 keyboard connector

PORTABLE: The Keykatcher is a hardware only monitoring device. Unlike software, it can be easily moved from computer to computer. You can record on one computer, and read the memory contents on another computer. A compact size allows it to be taken anywhere.

Five various-size KeyKatchers are available from Eye Spy - these prices include postage and packing and air mail to America and rest of world

ES/KK2 (mini size) 32K memory £68.00 \$69.00
ES/KK4 (mini size) 64K memory £75.00 \$89.00
ES/KK5 (standard size) 128K memory £78.00 \$99.00



An infantryman scans the Caribbean Sea while conducting a dismounted patrol of the Camp Delta perimeter in Guantanamo Bay, Cuba

In total it has flown to 49 destinations outside America, including the Guantanamo Bay prison camp in Cuba and other US military bases. Its visits to the UK, Germany and Mexico are almost certainly fuel stops, but these have caused a number of peace groups to ask if the USA and UK are participating in torture by allowing the aircraft to take the prisoners to locations where 'advanced interrogation methods' are questionable.

On 25 June 2004, the jet spent over an hour at Prestwick Airport in Scotland while enroute to Washington DC from Amman in Jordan. However, no passengers have ever been seen.

CREATING GHOST COMPANIES

Up until December, the jet was owned by a company called Premier Executive





COURTESY: US ARMY

Transport Services Inc. According to research by US journalists, the firm's directors exist only on paper. Their background is as shadowy as the firm itself. It is not unusual for any intelligence service to create 'ghost companies' and fictitious employees when operations of a sensitive nature are launched.

Premiere Executive Transport own but two aircraft, the Gulfstream-V, and a Boeing 737. Tailplane numbers are unique, like a license plate, but they can

be changed as well. There are websites that track the changes in tail numbers. N379P became N8068V in 2004 and before that it carried the number N581GA. The 737 landed at London Luton airport on 15 April 2003 and 17 March 2004. Like the Gulfstream, it also visited Glasgow airport five times in 2003. Significantly it landed at RAF Northolt on the first and third days of December 2003.

The Gulfstream-V has tables for meetings and screens for presentations and in-

flight films. The Gulfstream V is an inter-continental corporate transport capable of carrying four crew (two on the flight deck) and eight passengers and fuel reserves at its design cruising speed of 459 Knots over 6500 Nautical Miles in about 14 and a half hours. The G-V is typically equipped with "a crew rest room, a business work station with Satcom, computer and fax, a dining/conference area with seating for four, a three seat couch that converts into a bed, five other reclining seats, two galleys and a restroom fitted with a toilet and shower."

The executives of Premier Executive Transport Services, were all listed with dates of birth in the 1940s, 50s and 60s, but with social security numbers issued since 1998. Journalists have been unable to locate any further business or credit information on them or the company. People who receive social security numbers in adulthood are most often immigrants or persons who require new identities.

N8068V has since become N44982 when it was sold to Bayard Foreign Marketing LLC of Portland, Oregon - alleged to be another CIA ghost company.

• *Feature appreciation: Kevin Paterson*



Glasgow Prestwick Airport



Dulles Airport, Washington DC.
Inset: Glasgow Prestwick Airport

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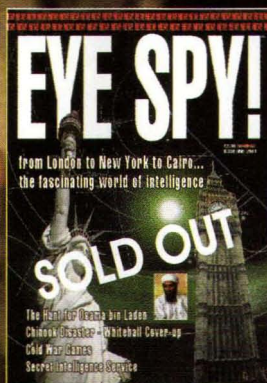
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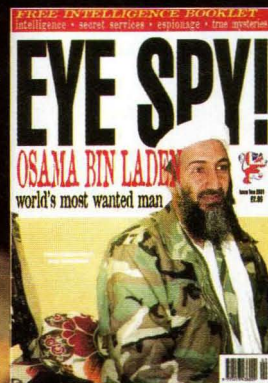
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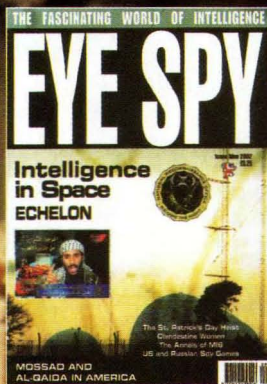


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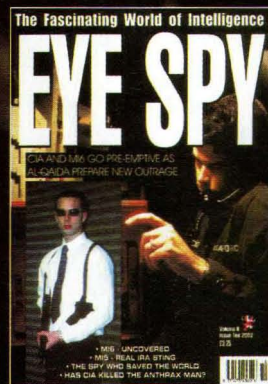


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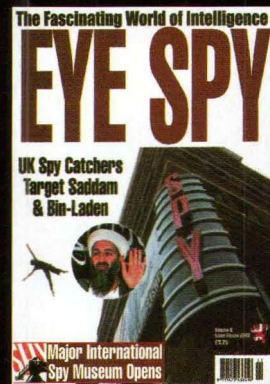
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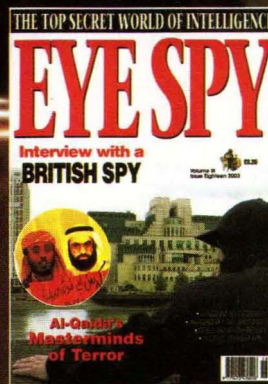


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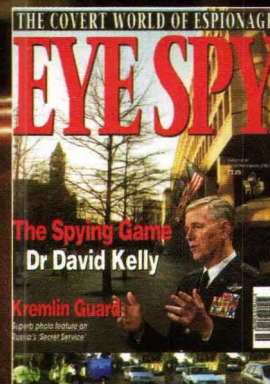
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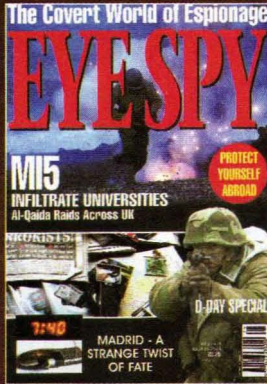


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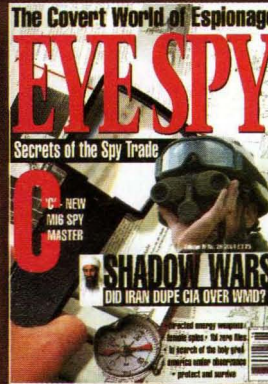


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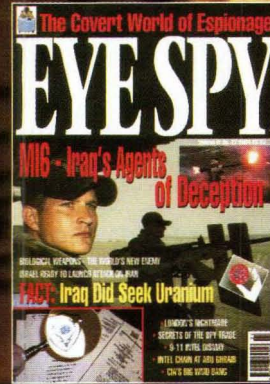
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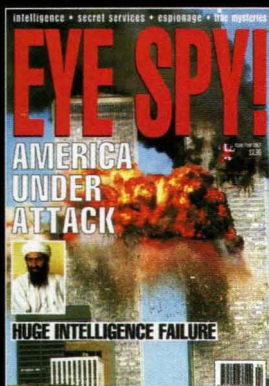


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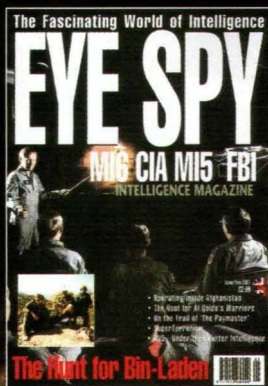


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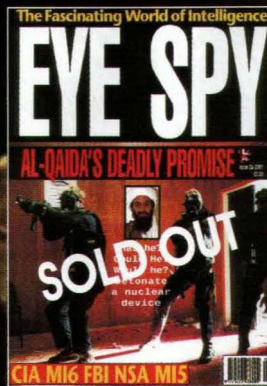
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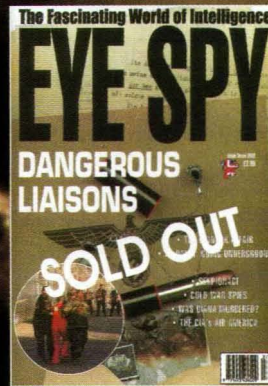
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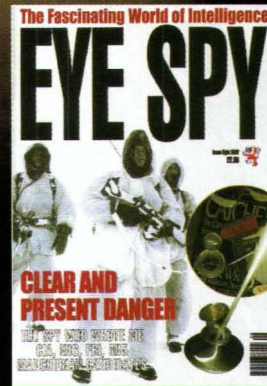
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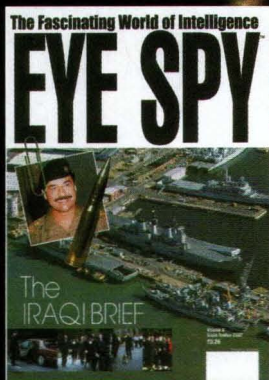
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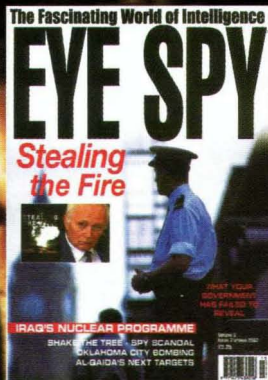
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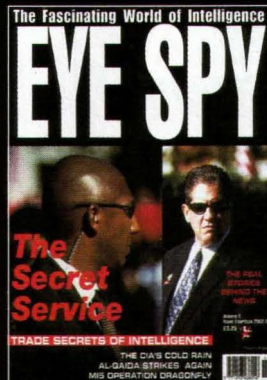
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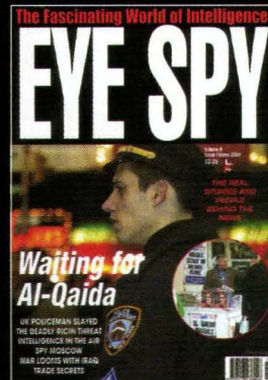
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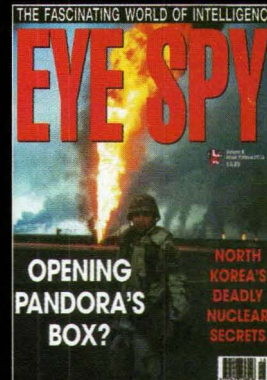
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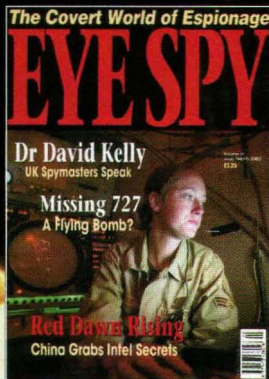
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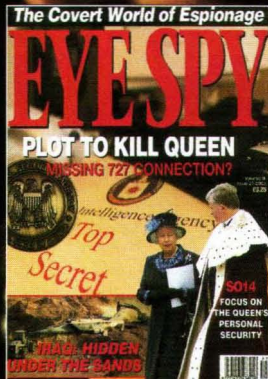
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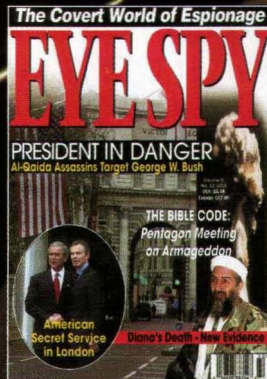
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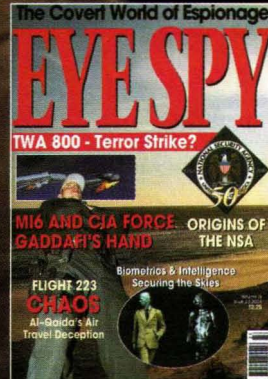
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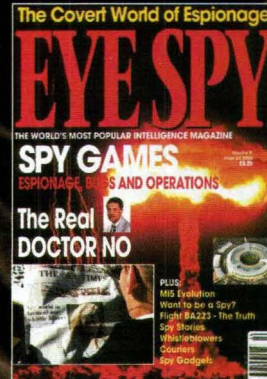
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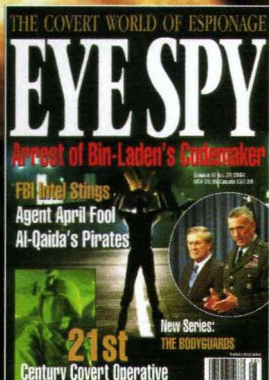
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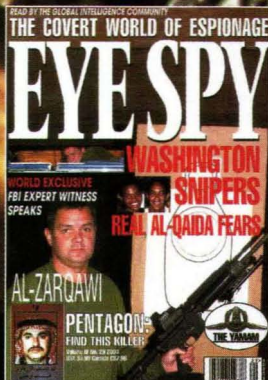
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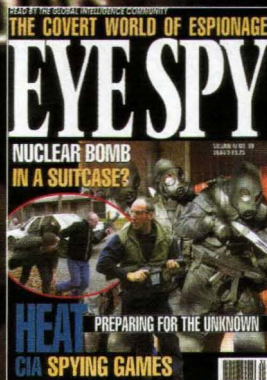
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WORLD OF ESPIONAGE

THE COMPANY'S

El-Salvador Option

CIA

CIA Station Chief's NIE prompts discussion on return of America's 'hit squads'

The head of the biggest CIA Station to be created since Saigon in the Vietnam War, predicted more conflict and the possibility of civil war in Iraq. A National Intelligence Estimate on Iraq's precarious future was produced for the administration in July 2004 under the direction



of acting CIA Director John McLaughlin (left). Chillingly, the report appears accurate. It has also prompted

the very real possibility that small 'hit squads' - the type used by the CIA in the

struggle against left-wing guerrillas in Central America 20 years ago - will be created to seek out the insurgents. The operation was dubbed the '*El-Salvador Option*', and used to destroy significant numbers of guerrillas.

Parts of the NIE were leaked to the media after being cabled back to Washington, and revealed instability on all fronts, political, economic and security would grow, unless the government in Iraq demonstrates it can improve a variety of situations for the ordinary Iraqi. This information was published prior to another intelligence memorandum that said insurgents, rebels and al-Qaida supporters now outnumber Coalition forces (200,000) in the country.



Abu-Musab al-Zarqawi

example. There was even a rumour circulating in Iran that Abu-Musab al-Zarqawi, who is undoubtedly behind many of the spectacular attacks on US and Iraqi forces, was captured following a CIA operation. An interrogator of a

Since its disclosure the CIA has worked closely with Coalition commanders in an attempt to target terrorist areas - the huge operation in Fallujah was just one



CIA headquarters Langley

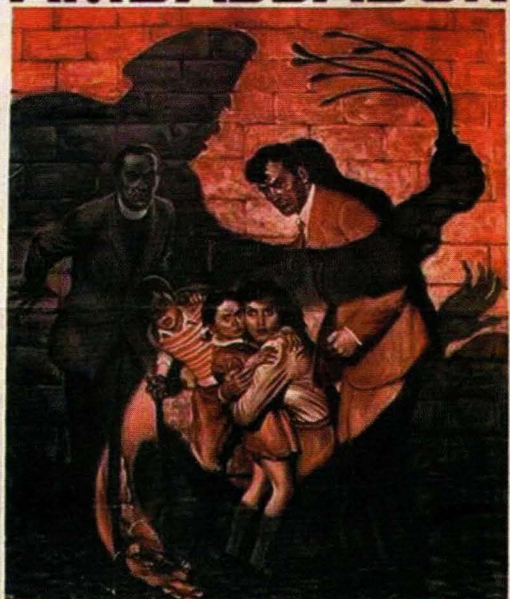
suspected suicide bomber claimed that Iraqi police had caught al-Zarqawi in Fallujah last October. This claim is almost certainly false. But despite this, the CIA has been forced to alter course in many directions including going on the offensive.

In recent months the CIA has liaised closely with military officials at the Pentagon. It is understood an option has been discussed that will see the creation of secret special units made up of Kurdish and Shia fighters backed by US forces and the CIA. The 'hit squads' will be sent undercover to areas inside and outside the Iraqi border and either kill or kidnap terrorists and insurgents.

SPIES WITHIN

As predicted in the NIE, attacks, especially on US troops and Iraqi security forces, have become a daily occurrence, even following the election. What concerns the CIA and US military is that various areas of Iraq's fledgling security agencies have been infiltrated by

AMBASSADOR



John Negroponte is still remembered in Latin America as this poster clearly depicts



US General George Casey

spies and sympathisers loyal to a variety of groups associated with al-Qaida. "Planet Bin-Laden" is a term often used to describe the country as US forces continue to endure difficult conditions.

The CIA Station Chief has some 330 CIA officers working in Iraq, yet trying to infiltrate and understand the complex network of groups and terrorist structures has been almost impossible. Using the 'hit squads' would give the agency an additional intelligence gathering option. The bleak NIE actually forecasted many of the incidents witnessed over the last few months as elections for the country neared. "At best, Iraq could look forward to a tenuous stability," was the most rosy outlook said the report, "at worst it would suffer civil war."

Some politicians believed the gloomy NIE was leaked deliberately by a CIA official in an attempt to rock President Bush's re-election campaign. This is unlikely, for the Station Chief has been in Iraq since December 2003 and has been privy to the ever changing situation in the country. His views were not challenged by General George Casey, the Army's most senior commander in Iraq, though John Negroponte, the US Ambassador in Baghdad said the CIA NIE was "too harsh."

As for the controversial creation of marauding 'hit squads', some intel watchers note that John Negroponte, the current US Ambassador in Baghdad, has first-hand experience of how the units operated. He was Ambassador to Honduras from 1981 to 1985. They were a controversial feature of Latin American affairs at the time. The US also helped train Nicaraguan Contras based in Honduras.

The NIE was prepared by the National Intelligence Council, which reports to the Director of Central Intelligence. It was approved by the National Foreign Intelligence Board, which is the senior Intelligence Community advisory body to the Director of Central Intelligence on the substantive aspects of national intelligence. The report itself was 50-pages long.

It is understood that intelligence officials believe that gaining stability in Iraq will take years.





In Suspicious Circumstances

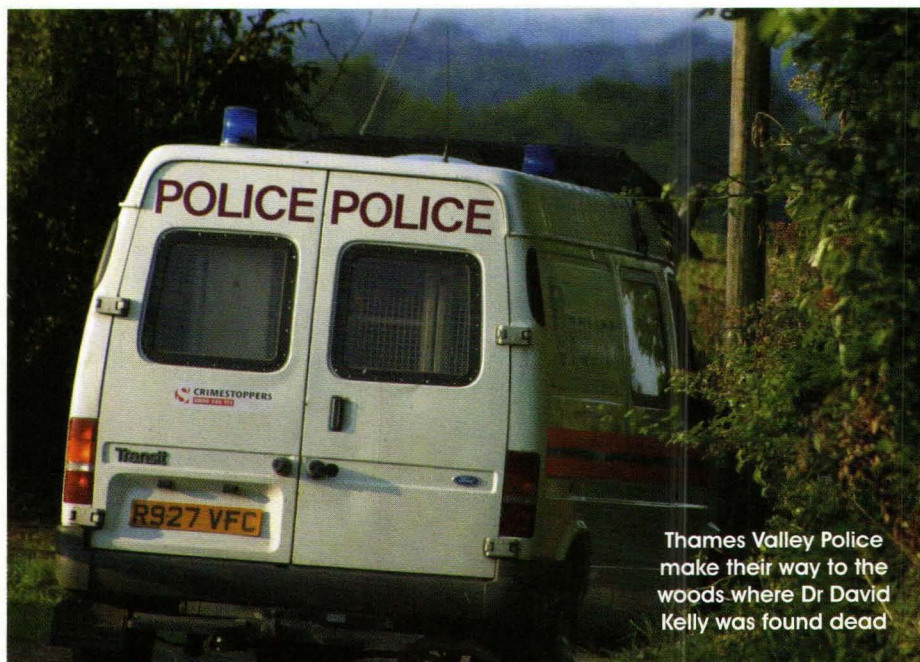
Like an ongoing nightmare, the truth behind the death of Ministry of Defence scientist, Dr David Kelly, keeps on recurring. Even though the official inquiry into the scientist concluded he had taken his own life, two British paramedics who attended the scene, believe not all the evidence is conclusive.

Dr Kelly was Britain's leading government scientist on weapons of mass destruction. As a microbiologist he visited Iraq under Saddam Hussein's regime dozens of times, becoming senior adviser on biological warfare for the United Nations. He held the post for five years between 1994 and 1999.

The 59-year-old, who played a key role between 1991 and 1998 in inspecting Iraqi weapons after the Gulf War, carelessly told BBC journalist Andrew Gilligan over the misuse of some intelligence being used by Britain to justify the war in Iraq. He said that Downing Street's Communications

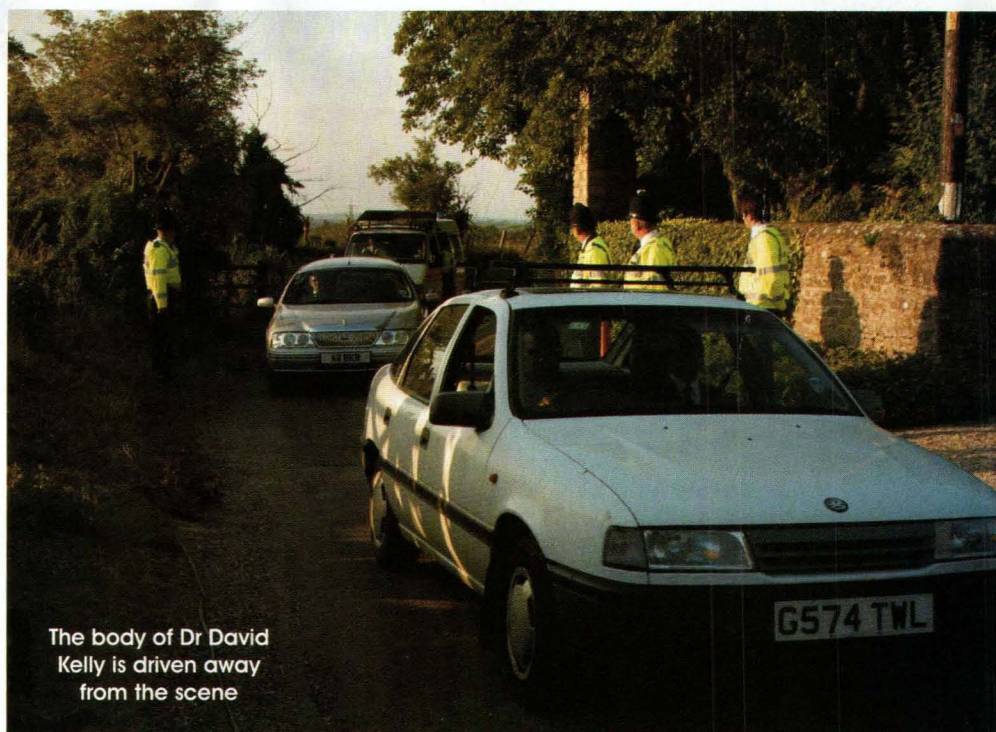
Director Alastair Campbell had "sexed-up" the September 2002 intelligence dossier. The resultant row was huge and played out in front of the world's press. This meant that statements saying Iraq could deploy chemical and biological weapons in just 45 minutes were included in the UK file. With the

government determined to discredit the BBC report, heads at the declining corporation were bound to role... and so they did. However, after appearing before two parliamentary committees, the country was shocked when police announced Dr Kelly had been found dead on the morning of 18 July.



Thames Valley Police make their way to the woods where Dr David Kelly was found dead

Fresh Doubts Cast over Death of WMD Scientist as Dr David Kelly Paramedics Question Suicide Verdict

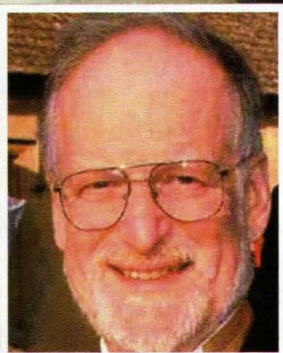


The body of Dr David Kelly is driven away from the scene

instances

Eye Spy was fortunate that Steve McManus of the Law Enforcement Picture Library quickly visited the location where Dr Kelly had been found. He waited for hours at Harrowdown Hill woods in Oxfordshire for news. As darkness fell and police came and went, the media drifted away.

Steve was one of but a handful of photographers who remained at the location to witness and photograph the police convoy that removed Dr Kelly's body from the woods. Since then, some members of the intelligence community are uneasy with the inquiry's verdict conducted by Lord Hutton, who said Dr

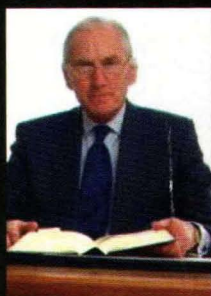


David Kelly



Alastair Campbell





Lord Hutton

Kelly had died by "bleeding from incised wounds to his left wrist." Naturally conspiracy theories abounded, but little hard evidence has emerged... until now.

Two of the first people to attend the scene were paramedics Dave Bartlett and Vanessa Hunt. They arrived at the woods at 9.55am, and carried resuscitation equipment to the field where Dr Kelly's corpse lie in situ. They were followed by two armed-response police officers for the one mile journey. Ms Hunt said: "He was about 20 metres away lying flat down with his feet towards us." Her colleague thought that Dr Kelly had hung himself from the tree and fallen. After checking for a pulse and heart activity, he was pronounced dead at 10.07am.

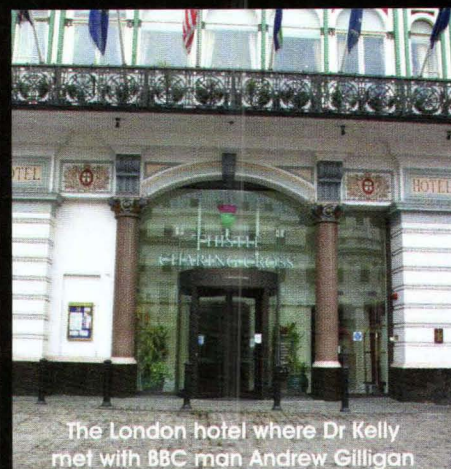
The Hutton report concluded that the victim had died from cuts to his left wrist, but the paramedics have now questioned this. "There was no gaping wound, there wasn't a puddle of blood," said Ms Hunt. "There was a little bit of blood on the nettles to the left of his arm. But there was no real

blood on the body of the shirt. The only other blood I saw was on his clothing. It was the size of a 50p (one inch) piece about the right knee on his trousers." The paramedics said this did not indicate Dr Kelly had died of his wounds. "If you manage to cut a wrist and catch an artery you would get a spraying of blood, regardless of whether it's an accident," said Ms Hunt. "Because of the nature of an arterial cut, you get a pumping action. I would certainly expect a lot more blood on his clothing, on his shirt. If you choose to cut your wrists, you don't worry about getting blood on your clothes. I didn't see any blood on his right hand. If he used his right hand to cut his wrist, from an arterial wound you would expect some spray."

Dave Bartlett agreed: "I remember saying to one of the policemen it didn't look like he died from that [cut] and suggesting he must have taken an overdose or something else. There wasn't a lot of blood. When somebody cuts an artery there is blood everywhere. I think it is incredibly unlikely that he died from the wrist wound we saw."

SO WHAT OR WHO DID KILL DR KELLY?

The Hutton inquiry notes that there was a good deal of blood around the body. One stain was said to be almost



The London hotel where Dr Kelly met with BBC man Andrew Gilligan

one yard long running into the undergrowth. Ms Hunt said: "I am sure I would not have missed that amount of blood."

Dr Kelly had also taken an overdose of painkillers (Co-Proximal). He supposedly took 29 of these powerful tablets, but a toxicology report discovered very little of the drug in his body - not really enough to kill him.

Another point of contention is the manner in which the body was discovered. Lord Hutton said he had seen a photo showing Dr Kelly's head and shoulders slumped against a tree. The



Police patrol outside the home of Dr Kelly as a film crew prepare their on-site report. The incident received global media coverage

paramedics are adamant that when they arrived he was lying flat on the ground several feet away from the tree.

There are numerous other anomalies of course.

- No suicide note
- On the morning of his death Dr Kelly emailed Judith Miller, a *New York Times* reporter and spoke of "many dark actors playing games"
- The Hutton Inquiry was established to investigate Dr Kelly's death, but it tended to focus on events leading up to the event, rather than how he died
- The British Police interviewed 500 people and took 300 statements. They seized more than 650 documents, but fewer than 70 statements were ever given to the inquiry

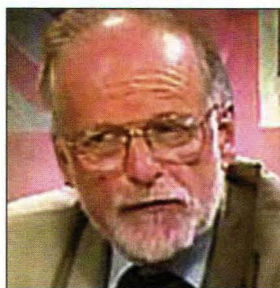
One significant event has long puzzled intelligence watchers. As a government scientist at the centre of such an important number of inquiries and committee meetings, Dr Kelly was not put under observance by MI5 or given a safe house or a police security detail. He was simply allowed to return home. "Very odd for someone who has been accused of breaking the Official Secrets Act," one intelligence source told Eye Spy.



In the end, Coroner Nicholas Gardinar said he was satisfied with Lord Hutton's conclusion that Dr Kelly had committed suicide. He also moved quickly to dampen the enthusiasm of a growing number of conspiracy theorists. However, there are some significant officials and experts who still refute the suicide verdict, including public health expert Andrew Rouse, a specialist in anesthesiology Searle Sennet, and David Halpin a specialist in trauma, Stephen Frost a specialist in radiology, specialist pathologist Dr Peter Fletcher and specialist vascular surgeon Martin Birnstringl. They have all debated the death saying that "it goes against classical medical teaching,

Painkiller Withdrawn Over Mounting Suicides

Following a study by the Committee on Safety of Medicines (CSM), an independent expert body that advises the government on medicines, Co-Proxamol - one of Britain's most popular painkillers - is being withdrawn because of its association with suicides. Dr David Kelly had taken the drug just before he died and a number of tablets were found on his body.



Co-proxamol, used by thousands for conditions such as back pain, will be phased out over the next year or two. Data shows fatal overdoses due to co-proxamol are the second most frequent means of suicide with prescribed drugs, accounting for up to 400 deaths each year in the UK (England and Wales).

The risk of death associated with co-proxamol overdose seems to be higher than for either tricyclic antidepressants or paracetamol. The drug is a combination analgesic containing paracetamol and the opioid dextro-propoxyphene and is available only with a prescription.

Some say co-proxamol is no better than full strength paracetamol at relieving pain and is known to be very toxic in overdose.

Chairman of the CSM Professor Gordon Duff said: "Co-proxamol will be phased out of the market place gradually to give patients time to discuss their treatment with their doctor and change to a suitable alternative. There is no need for panic or concern and if patients have been taking co-proxamol continuously for a long time they should not stop without consulting their doctor."

It is estimated that 1.7 million GP patients per year receive 7.5 million prescriptions for co-proxamol.



which is that a transected artery retracts, narrows, clots and stops bleeding within minutes."

Former coroner Dr Michael Powers said: "I am concerned that the due process has not been followed. There evidently are contradictory views that were never put to the experts who gave

evidence before Lord Hutton. In consequence the rigours that are normally undertaken at a coroner's inquest simply were not fulfilled."

The paramedics were either mistaken or they were telling the truth. But clearly there can not be two sets of truth...



A reporter asks a police officer for directions to the wood

BIOMETRICS

THE HOTTEST TECHNOLOGY FOR SE

BASIC UNDERSTANDING OF BIOMETRICS AND THE DIFFERENT TECHNIQUES BEING USED TO COMBAT GLOBAL TERRORISM

Since the global war on terrorism began, increased emphasis has been placed on security, access control and identification.

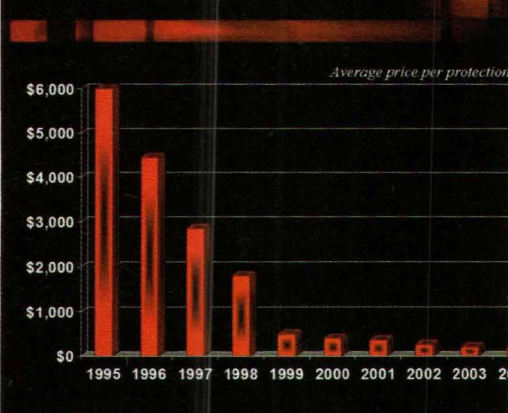
Positive identification is more critical than ever before. Historically, individuals were identified by some known piece of data or information, such as a social security number, mother's maiden name, or a personal identification number. Individual identification also took the form of things that we had such as a driver's license, an ATM card, a work ID card, or a key to the building. Today there is technology, called biometrics that

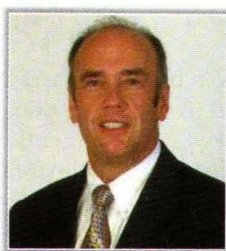
provides positive identification using fingerprint, iris, facial, hand geometry, voice, and signature recognition.

Much attention is being given to this technology that has been under development for decades. In fact, the first commercial biometric device was produced nearly 25 years ago, and there is a good chance you may have already come across one of these biometric identification and access control systems. As advances in this specific area of technology continue, adoption will grow and you may soon see a biometric

identification system built into cars and computer keyboards. The best measurement of biometric advancement is the falling price of verification, as can be seen on the chart below.

Biometric Verification Costs





by Kevin G. Coleman, Ph.D.

With its rapidly declining price, the use of this technology will begin to explode. Data centres, high value storage areas, research and development laboratories are all prime targets for use of biometric devices. In fact, it is estimated that there are about 30,000 locations actively using biometric systems for access control in the United States alone.

Biometric technologies are defined as "automated methods of identifying or authenticating the identity of a living person based on a physiological or behavioural characteristic."

The biometric identification and access control systems are based on a number of different techniques and devices. What exactly are they and how do they work? These systems can be placed in one of two categories. Physical Biometrics uses physical characteristics for recognition and includes fingerprints, facial, iris, retinal, and hand recognition. The second category is Behavioural Biometrics, and uses characteristics such as voice or handwriting for recognition.

The following is a brief description of several of these biometric systems.

FINGERPRINT RECOGNITION

Fingerprint-based identification is the oldest biometric technique, which has been successfully used in numerous applications. We all have unique, immutable fingerprints. A fingerprint is made of a series of ridges and furrows on the surface of the skin which covers



NUCLEAR PUZZLE TRIGGERED BY THE ISLAMABAD TAILOR

Bizarre clue that led the CIA to discover the extent of rogue scientist's nuclear trafficking

The United Nations atomic watchdog agency has found evidence of secret nuclear experiments in Egypt that could be used in weapons programmes. Most of the work was carried out in the 1980s and the 1990s, but the International Atomic Energy Agency (IAEA) is analysing information that suggests some work was done as recently as 2004.

The move follows a major intelligence operation involving several agencies. Officials are examining the extent of nuclear technology supplied by Abdul Qadeer Khan, the chief architect of Pakistan's nuclear bomb. He ran an illicit weapons trafficking network that appears to be much larger than originally feared. Former Mossad chief Ephraim Halevy also expressed fears that Syria and Saudi Arabia might have acquired some kind of nuclear capability. The CIA believes Khan, along with North Korea, clandestinely sold nuclear



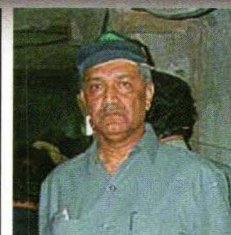
Kim Jong-il of North Korea has at least three nuclear bombs

technology to Libya worth 100 million dollars and blueprints for a ten-kiloton nuclear bomb. The design showed a device of more than 100 parts, all fitting in a sphere about 34 inches in diameter, just the right size for a rocket. The agency is still trying to determine if those designs were purchased by other nations. The rogue scientist visited 18 countries in total, any one of which could have secretly purchased the plans. Pakistan President Pervez Musharraf pardoned him and has refused to allow him to be questioned directly by the CIA.

Khan had been under observance by the CIA, MI6 and Dutch intelligence for over a decade, but strangely no agency understood or believed he was selling nuclear secrets to countries like Libya or North Korea. The CIA only discovered the full details of the transactions in 2004, when the Libyans handed over two large plastic bags with the names of an Islamabad tailor on one side, and a dry cleaner on other, one of

several clues that it had come from the Khan Laboratories.

In the early 1980s, Khan obtained the blueprints for a weapon that China had detonated in its fourth nuclear test, in 1966. Intelligence experts believe that Khan traded his centrifuge technology to the Chinese for their bomb design.



Abdul Qadeer Khan

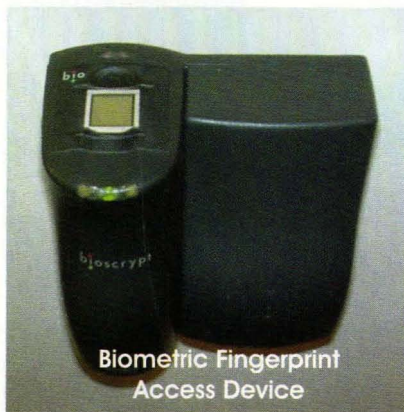
A Mossad intelligence source said at least one Arab state now has the potential to achieve a "significant nuclear leap." An assessment made by the Israeli Defence Force (IDF) noted that terrorist organisations are stepping up their efforts to obtain weapons of mass destruction, including nuclear bombs. Intelligence analysts fear Iran or even al-Qaida could also have acquired the plans.

The Egyptian Government immediately rejected the claims it is or has ever pursued nuclear weapons. However, an Egyptian diplomat who spoke only on condition of anonymity, said Egypt had tried to produce various components of uranium without declaring it to the IAEA as they were bound to do under the Nuclear Nonproliferation Treaty. The products included several pounds of uranium metal and uranium tetrafluoride - a precursor to uranium hexafluoride gas. Egypt has become critical of the Nonproliferation Treaty because of concerns about Israel's undeclared arsenal of some 200 nuclear bombs, and more recently fears about Iran's nuclear agenda.

Uranium metal can be processed into plutonium, while uranium hexafluoride can be enriched into weapons-grade uranium - both for use in the core of nuclear warheads. The Vienna-based IAEA had not yet drawn a conclusion about the scope and purpose of the experiments. The work appeared to have been sporadic and involved only small amounts of material and lacked a particular focus.



Former Mossad chief Ephraim Halevy (left) has expressed fears that Syria and Saudi Arabia might have acquired some kind of nuclear capability



Biometric Fingerprint Access Device

the finger. The uniqueness of a fingerprint can be determined by the pattern of ridges and furrows as well as the small points in the fingerprint. These characteristics are compared against patterns stored in the access system and grants accesses to those that match while denying access to those that are unknown. The fingerprint photo on page 65 shows match points (indicated).

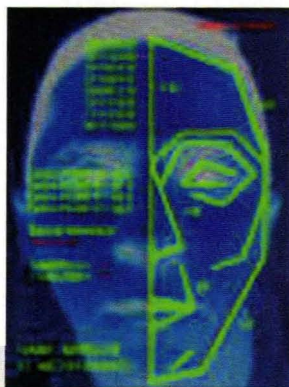
The photo above shows a typical Biometric Fingerprint Access Device. This device controlled access to the main telecommunications terminal closet for a utility company.

In extreme cases, one may think it is possible to fool a fingerprint recogni-

tion system by simply cutting off an individual's finger, and placing it on the access device. However, in many of the advanced fingerprint recognition systems sensors have been included that can determine if the finger in the reader is living or not. This is accomplished through temperature, moisture and oxygenation sensors.

FACIAL RECOGNITION

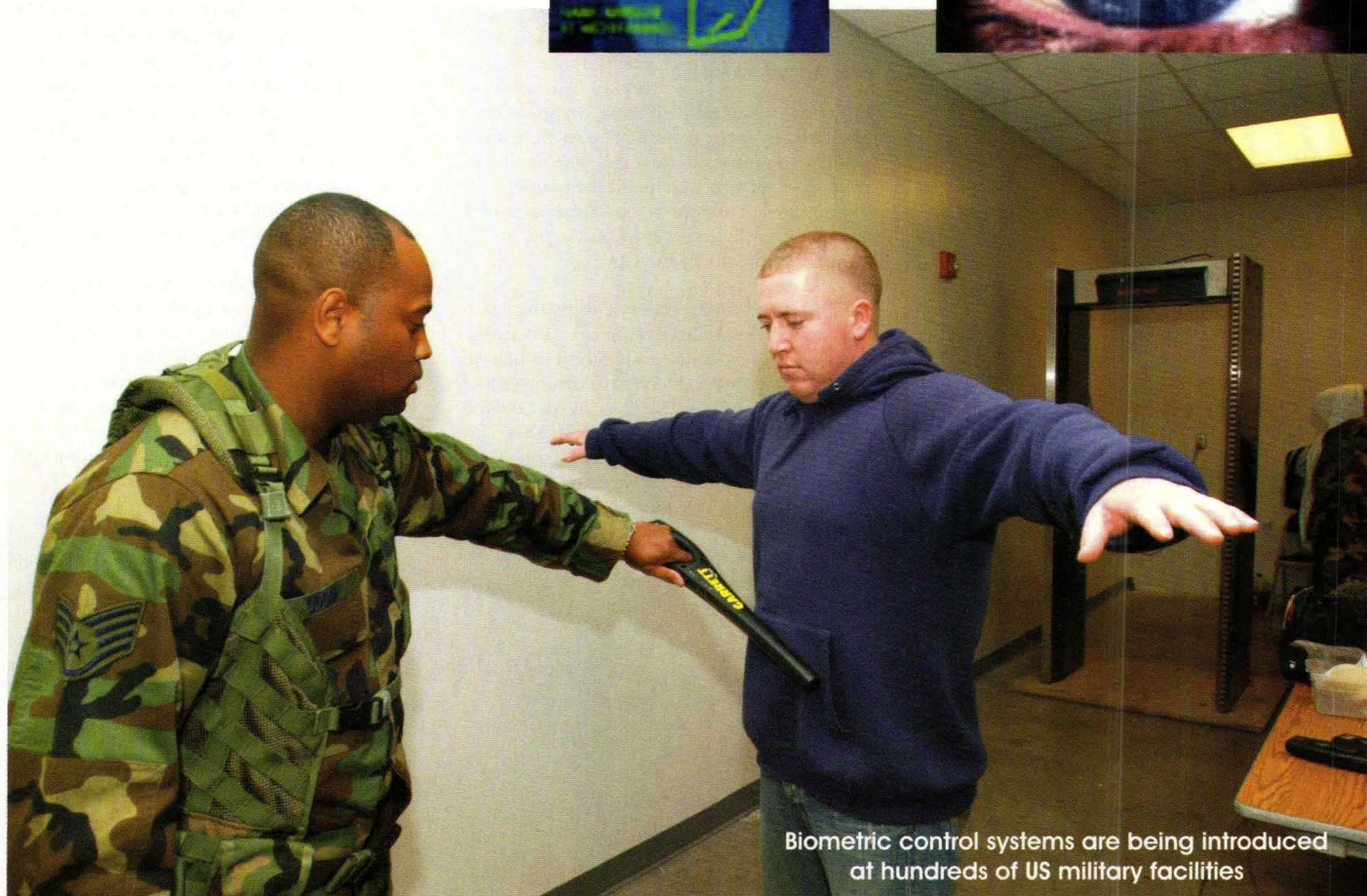
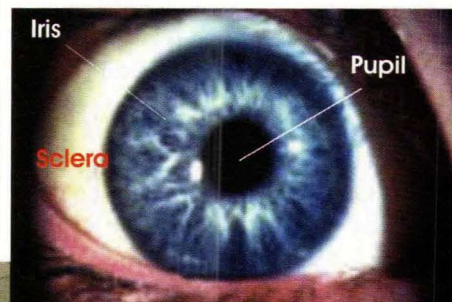
Facial recognition analyses specific characteristics of a person's face images captured by a digital video camera. It takes specific measurements of the overall facial structure, including distances between eyes, nose, mouth, and jaw edges. These measurements are retained in a database and used as a comparison when a user stands before the camera. This type of biometric



system has been used widely, as publicised in the fight against terrorism. Known measurements, stored in a database, are compared to measurements captured in real time, matches are identified and appropriate actions are taken.

IRIS RECOGNITION

The iris is the coloured ring of tissue suspended behind the cornea and immediately in front of the lens. Like a fingerprint, every iris is unique. While many mistake it for retinal scanning, iris recognition simply involves taking a picture of the iris; this picture is used solely for authentication. A matching algorithm of the iris recognition system analyses the patterns in the iris that are visible between the pupil and sclera (white of the eye) and converts them into a digital template. These values are stored in a database and communicated



Biometric control systems are being introduced at hundreds of US military facilities

COURTESY: US ARMY

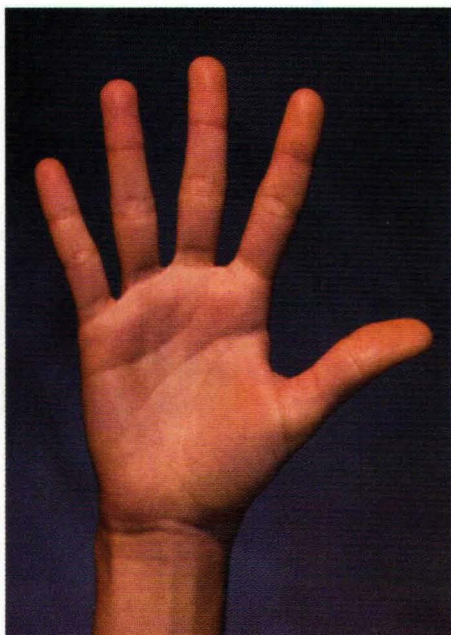
to access control portals where the subject has access privileges.

RETINAL RECOGNITION

Retinal recognition technology is used to measure the unique configuration of blood vessels contained in the retina. Retina images are captured using a digital camera. The pattern of blood vessels of the retina is mapped. These maps are compared against those stored in a database, and matching is done by an algorithm programmed into the system. This technology is not widely deployed for commercial applications like the other biometric technologies.

HAND RECOGNITION

Hand Recognition was one of the first biometric systems to prove practical in use across a variety of real-world applications. Hand recognition works by taking a 3-dimensional view of the hand in order to determine the geometry and metrics around the finger length, height and other details. Hand recognition systems with up to 90 different measurements are currently available. These measurements and metrics are processed by applying algorithms and stored as a representative template for a specific individual.



VOICEPRINT RECOGNITION

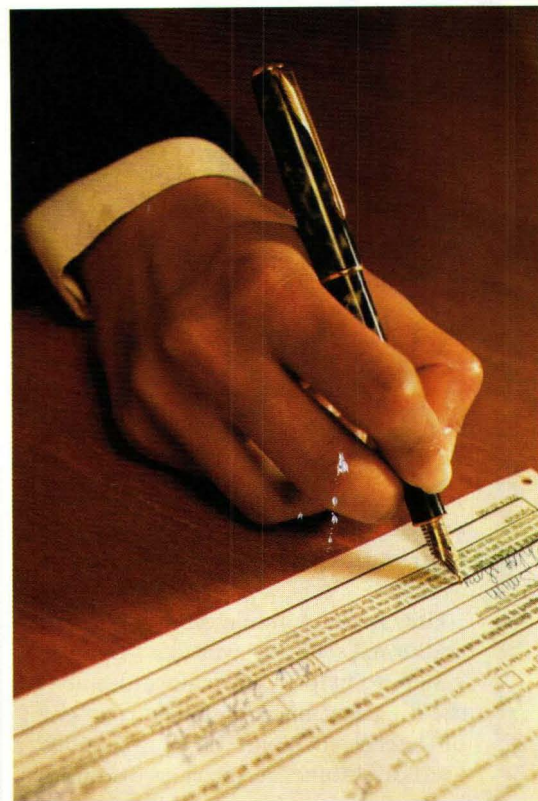
Every voice has enough individual characteristics to distinguish it from others through voiceprint analysis. Voiceprint recognition can be defined

as a combination of both aural (listening) and spectrographic (instrumental) comparison of one or more known voices with an unknown voice for the purpose of identification or elimination. The uniqueness lies in the manner in which the muscles for talking are manipulated during speech. These patterns are captured and stored. Once stored, a comparison of voices is done by using a sound spectrograph that analyses the complex speech waveform and graphically displays the results.



HANDWRITING RECOGNITION

Distinguishing one individual's handwriting from another individual's can also be accomplished through biometrics. This is quite different than Optical Character Recognition (OCR) where a computer converts handwritten materials to electronic format. Complex computer programmes look at spacing, slant, arcs and other characteristics of hand writing samples and create a template that is stored in a data base. These templates are assessed and matches can be identified. New devices that actually create a 3-D image of a signature based on pressure exerted during the signing process have recently come on the market but have yet to reach critical mass market usage.



BIOMETRIC SMART CARDS

Smart cards, or cards that augment the information contained on the magnetic strip with a substantial amount of data that can be read and written to on a chip mounted on the surface of a card, provide a complementary technology to biometrics. The acceptance of these combined technologies in the US market is being driven by the significant increase in identity theft over the last few years. ➤





smart card

Application of these technologies is being considered for the National I.D. Card initiatives currently being discussed.

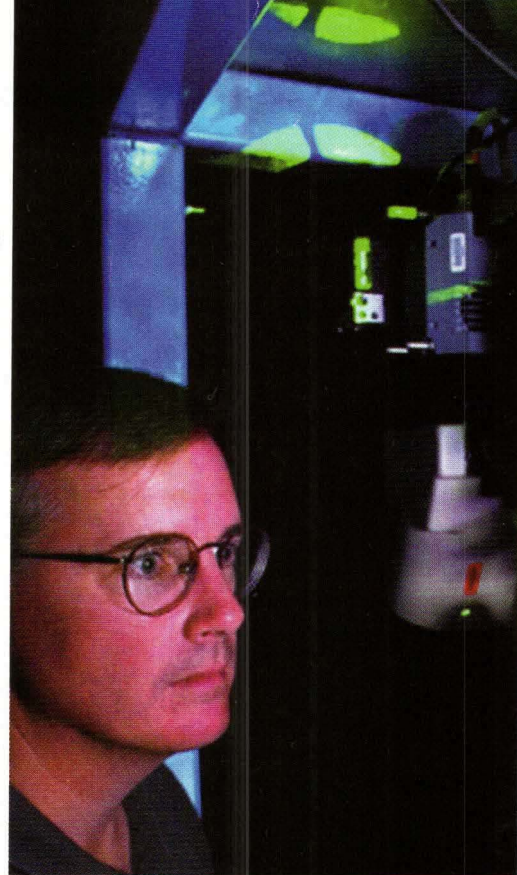
Fingerprint-scan technology adds an additional security layer to a smart card system to help guard against identity theft. Earlier this year the Department of Defense (DoD) in the United States tried out biometric smart card solutions in South Korea, Japan and Europe. The DoD's Biometric Identification System (DBIDS) places a digital fingerprint and photo on a smart card in a configuration that local authorities can adapt to their specific system requirements. Interoperability remains a stumbling block within the foreseeable future.

BIOMETRIC ACCURACY

Accuracy is the key to success in biometrics. Positive identification with

an extremely limited number of errors is required and must be proven. This requires biometric systems to obtain high quality, legitimate biometric characteristic templates. These templates are the records used by the biometric-based authentication system. Without high quality, interoperability among systems and standards, correct authentication cannot be guaranteed. Other areas that cause errors in biometric authentication include sensor noise, particularly in voice authentication systems, as well as the variability in biometric characteristics.

No one biometric technique will serve all applications. The differences between physiological and behavioural methods are important for several reasons. The degree of intrapersonal variation in a physical characteristic is smaller than a behavioural characteristic. For example, your fingerprint is the same day-in and day-out, barring injury. A signature, however, is influenced by both controllable actions and less controllable psychological factors. Behaviour-based systems, therefore, have a tougher job adjusting for intrapersonal variation and tend to have higher error rates. None of the techniques described above are perfect. They all make mistakes.



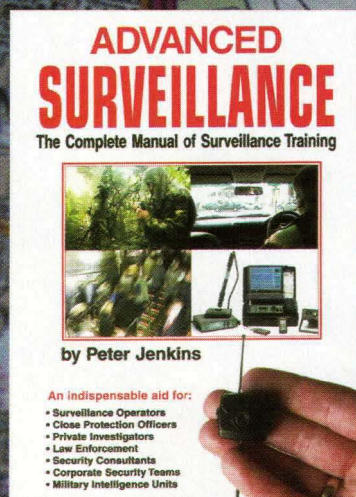
SHARING BIOMETRIC INTELLIGENCE ON TERROR SUSPECTS

The accuracy that has been achieved to date in the most sophisticated systems is said to be classified. However, more work must be done to make these systems ready for wide spread use in the global war on terrorism. Global standards for capturing the biometric data samples and agreements to share

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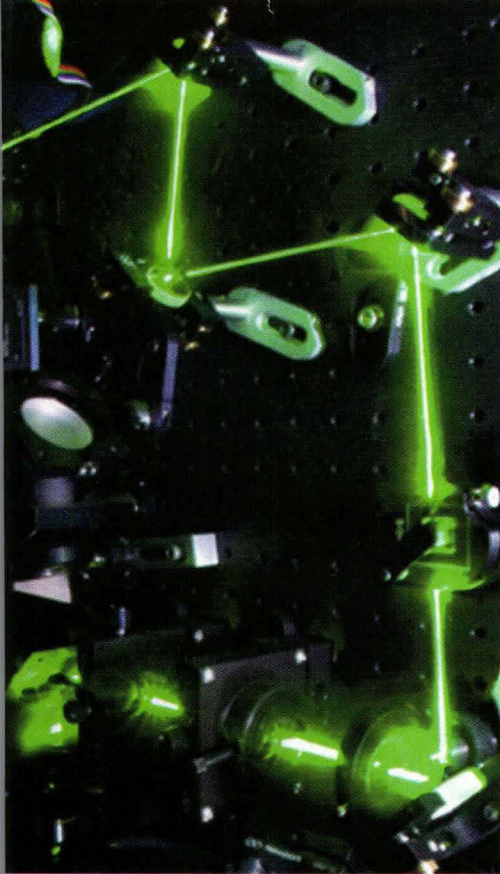
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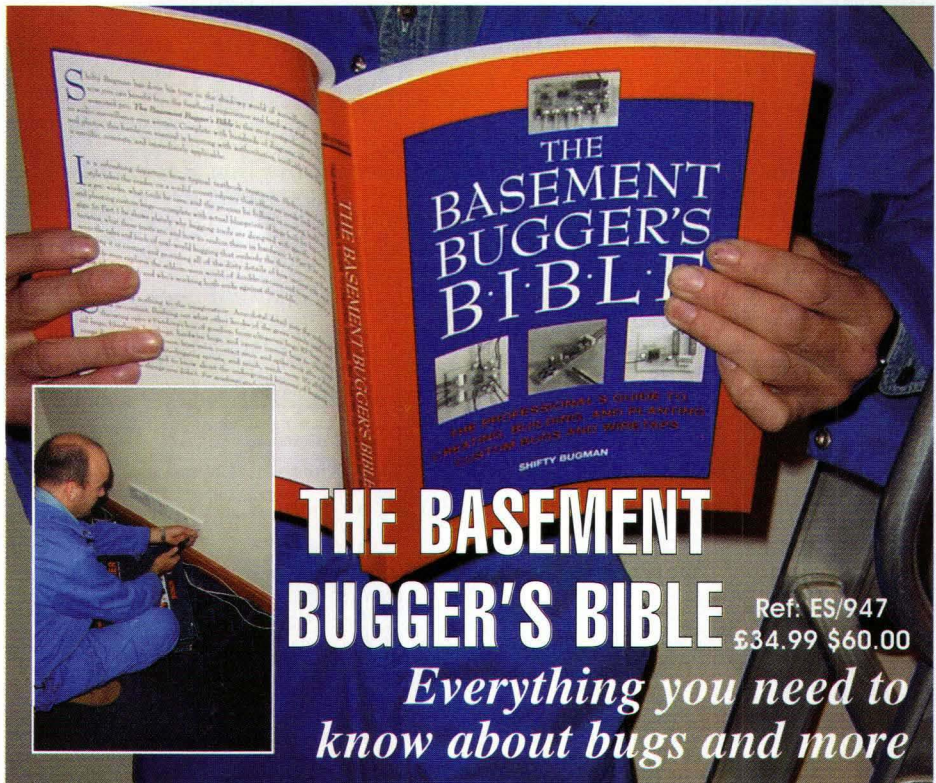


these templates of known persons of interest must be in place for the system to provide the benefits we all seek.

While still early in the technology maturity model, biometric systems are being deployed almost daily. Biometric identification systems are being used by government and the private sector alike. Security professionals agree these techniques provide another barrier that can be used to secure information, materials, and physical locations. As technology continues to evolve, the systems become more reliable, and regulatory policies are developed in order to safeguard individual privacy, the use of these systems will become commonplace. However, now we must consider new implications. It will be almost impossible for individuals in the intelligence community to disguise themselves, or the average citizen could be identified at a public event for something as small as a traffic violation.

Only time will tell how the uses of these systems will grow in the future.

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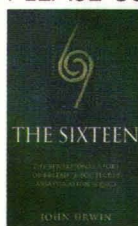
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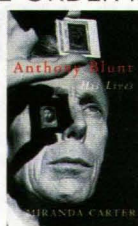


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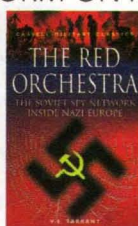
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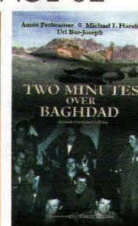
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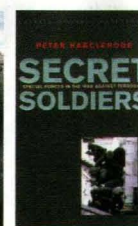
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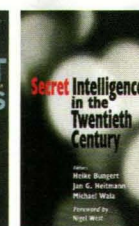
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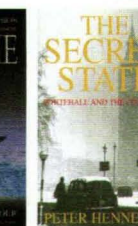
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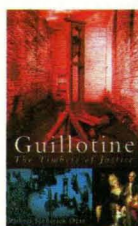
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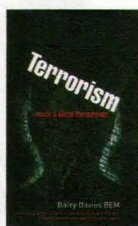
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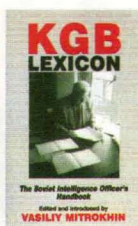
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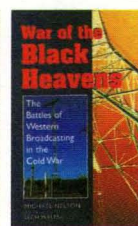
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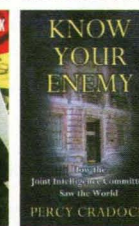
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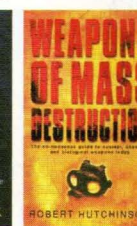
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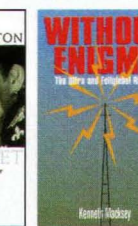
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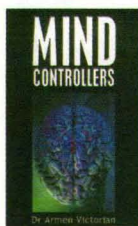
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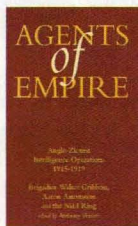
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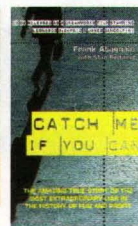
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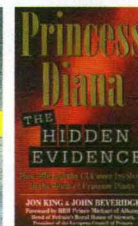
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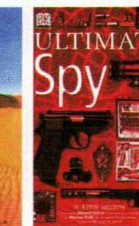
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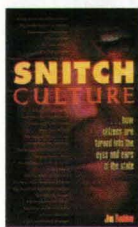
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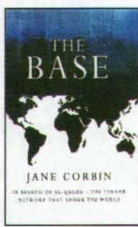
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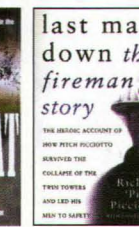
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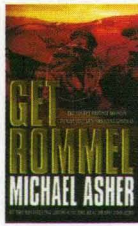
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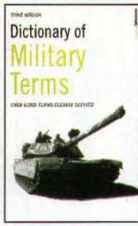
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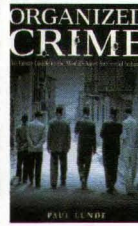
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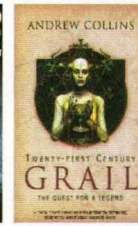
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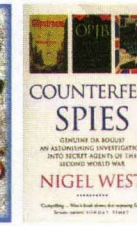
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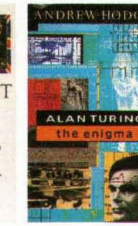
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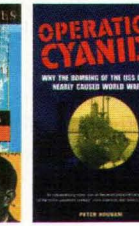
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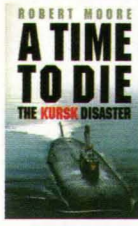
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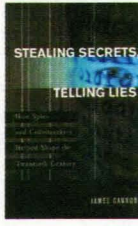
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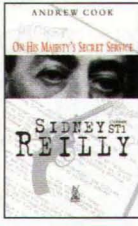
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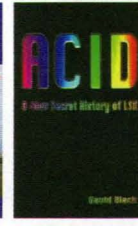
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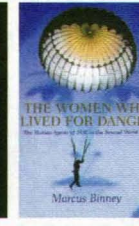
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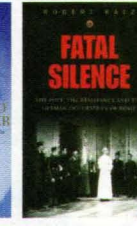
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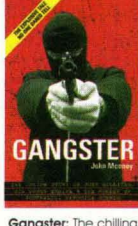
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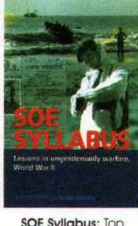
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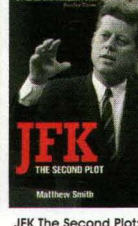
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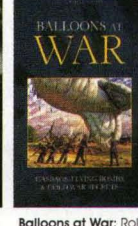
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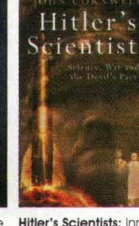
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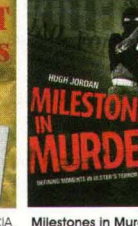
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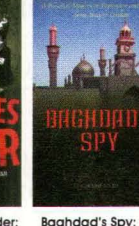
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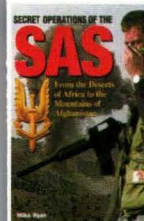
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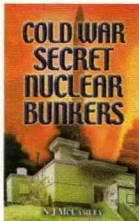
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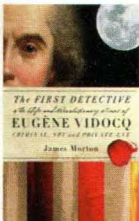
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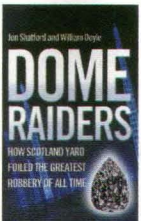
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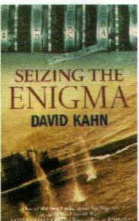
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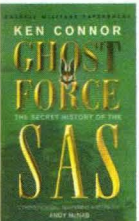
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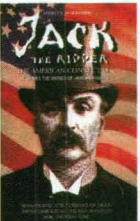
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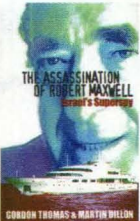
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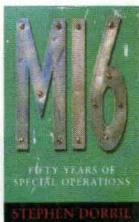
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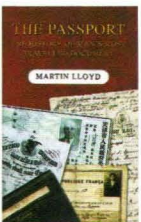
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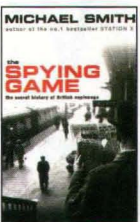
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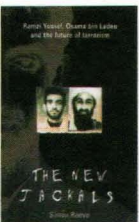
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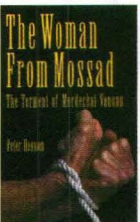
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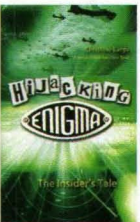
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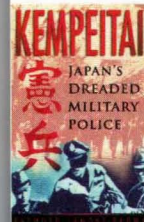
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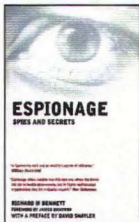
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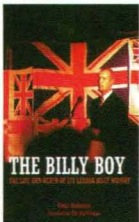
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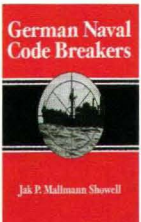
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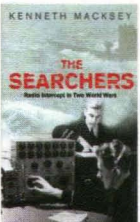
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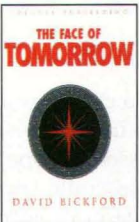
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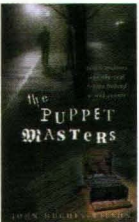
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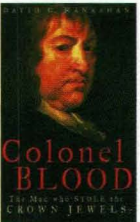
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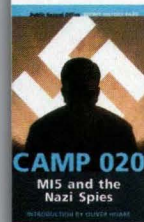
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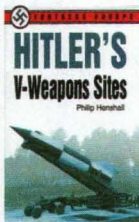
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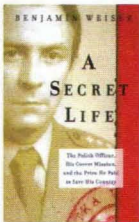
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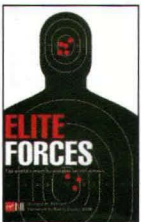
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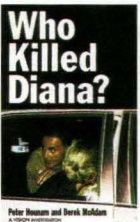
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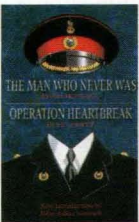
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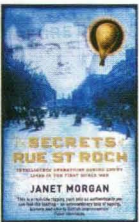
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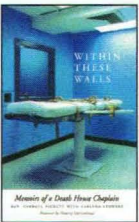
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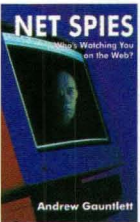
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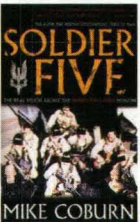
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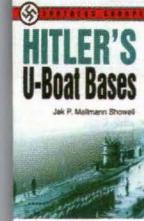
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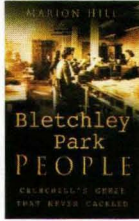
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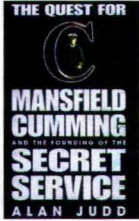
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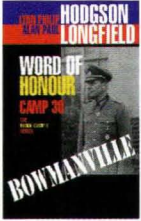
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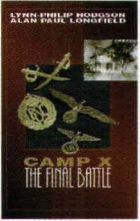
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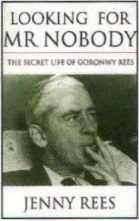
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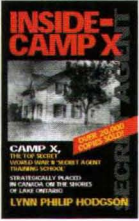
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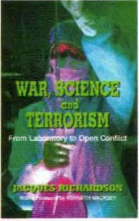
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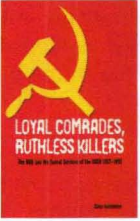
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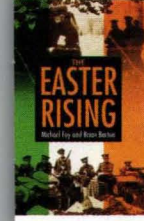
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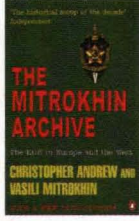
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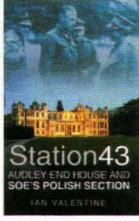
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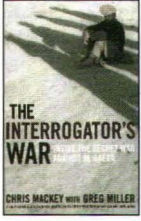
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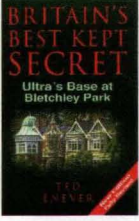
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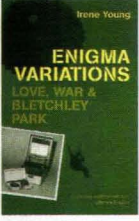
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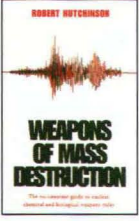
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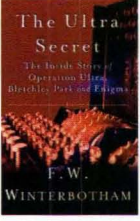
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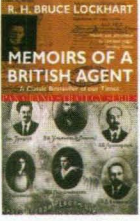
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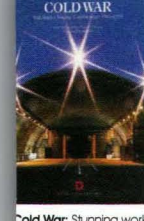
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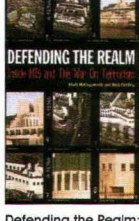
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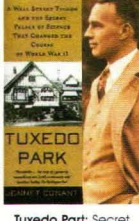
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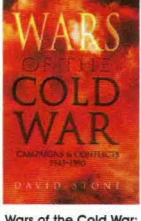
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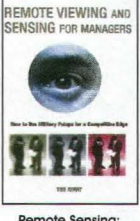
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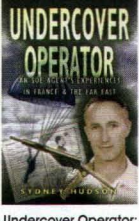
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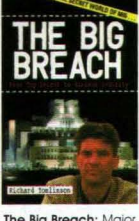
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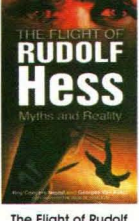
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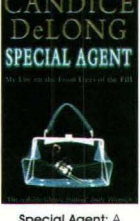
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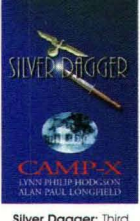
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SPY TWIST

For Communications Eavesdroppers

New scientific discovery has NSA and GCHQ 'listeners

Eavesdropping on communications is about to get difficult, maybe impossible in some cases. This is due to a recent discovery made by British physicists. So concerned is the intelligence community, that unnamed organisations have already approached those responsible for the research, to "do a deal." In doing so, the scientists have invoked various official secrecy clauses.

If the technology works, and at present there is no reason to believe it will not, it spells major trouble for listening and interception centres such as GCHQ (Government Communications Headquarters) in Cheltenham and the NSA's super secret spy base at Menwith Hill, North Yorkshire. That is unless they keep apace

with the technology and quickly adapt, and even then, these agencies will be hard pressed to cope. Moreover, the technology could have implications for airborne laser projects like SDI (Strategic Defense Initiative - 'Star Wars'), and communications through space. Recent high altitude laser tests in Earth's atmosphere in September and October 2004, have already used this new science to generate 'air spikes' for hypersonic aircraft.

The principle on which the technology is based is amazingly simple - just twist light beams into corkscrew-shaped configurations. The laser device used in these investigations produces science which most physicists have not heard about or imagined and is certainly not found in nature. Measuring only one



Eavesdropping has come a long way in a short time... but it is about to get a little more difficult

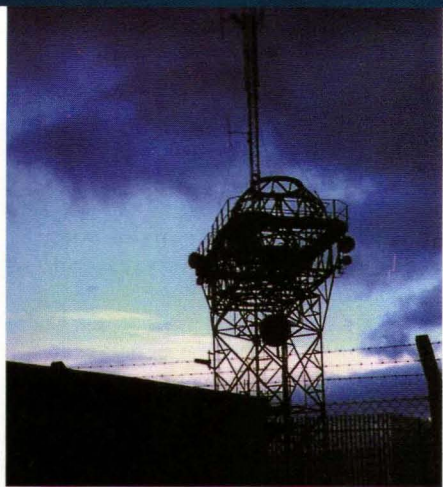
metre in length, the laser was built by Miles Padgett and fellow physicists at the University of Glasgow. The reason for producing such a device was not to achieve any particular goal, but just to see if it could be done. They then showed it to industrialists and asked how it may be used.

It was at that point intelligence officials at the NSA and GCHQ and other agencies became worried.

The device was clearly of use in today's security world, but it might also threaten the tried and tested art of eavesdropping on communications.

Twisting light into a corkscrew shape is simple, just use a diffraction grating. A diffraction grating consists of a narrow series of lines drawn on a transparent plate which allows the light beams to twist and turn as they pass through the plate interfering with each other as they





Concerned

The new technology could have implications for advanced projects such as NASA's hypersonic aircraft X-43A (left), but primarily it is the listening agencies that are more concerned - none more so than the NSA with stations around the world, including Menwith Hill (above right)



NSA Director Michael Hayden

emerge. It is possible to put any number of twists into the beam.

The energy of ordinary light travels in the same direction as the wave and as such the beam looks like the standard image of a wave with troughs and peaks in a neat little row. When this laser light hits a surface it makes a disc like image with a bright intensity centre and a lower intensity surrounding ring. However, in twisted light the energy of each wave travels in a corkscrew path which spirals around the beam's central axis. By sending the beams through this grating, individual photons gain what is termed in quantum physics, orbital angular momentum. This allows the beam to take on unlimited numbers of possible states, unlike standard polarization which allows only two states. In plain English, this theory means there is no limit to the amount of information you can send with a twisted laser light beam. With a single twist the alphabet can be encoded.



Increase the twists high enough and the 60,000 characters of the Chinese alphabet can be encoded.

Sending signals through free space is not as practical as sending them through fibre optic cables. Unfortunately, these cables were not designed for twisted light. Light signals sent this way lose their twisted quality if the cable is bent or placed under stress. However, physicists are confident they know how to overcome this problem with new types of cable. One suggestion is to explore multi-cored cables.

THE IMPLICATIONS FOR EAVESDROPPING ON SIGNALS

Light is not the only form of electromagnetic waves, another type is microwaves

used in telecommunications. Microwaves can also be twisted in the same way since they are a form of electromagnetic radiation the same as light, just with a different wavelength (the points between the crest and troughs of the wave). Research on microwave twisting is already underway.

For ordinary microwave eavesdropping you do not need to be in the beam to listen in on a signal. The signal might be directed at a building, but an intelligence operative seeking to intercept that signal, could be sat in a car across the road. He can detect enough of the signal to understand what is being communicated. If the microwave could be twisted the



A TWIST FOR EAVESDROPPERS

operative would need to be exposed to the recipient by being very much closer to him - ideally standing right next to him! If this does not happen, only part of the signal is detected which does not allow the operative to hear or record the whole message. In reality, he would need to be directly in the beam to be able to receive all the communication. Just a little off centre and he only detects a tiny part of the twisted beam, and is unable to discover what number of twists are being used.

If an operative wanted to eavesdrop at a distance, he would clearly need a few colleagues. Even having persons on the other side of the beam would collect insufficient data. It is also pointless having operatives either side of the target and above and below. With this arrangement the number of eavesdroppers is still too few to determine the whole signal. It would require at least eight persons dotted around the signal just to stand a chance of collecting enough data to understand it. The eavesdroppers would then need to combine each part of their signal, probably using mirrors to a central detector which itself would need to have compensating laser reference beams to correct the wobble. Hardly a good way of gathering intelligence and remaining out of sight!

It could get worse. Imagine a scenario of a signal using eight twists. Anyone using



this technology to send secret signals would twist the light 64 times. If you were intent on intercepting the signal you would require 64 eavesdroppers, mirrors and laser wobble compensators. Therefore, imagine a short time in the future when several hundred twists are possible. Clearly a problem for our security services.

GCHQ and the NSA will have noted that this device could easily be combined with quantum cryptographic systems already in use, to detect any eavesdroppers in the

first place by detecting the quantum disturbances they introduce into the signal. It seems quantum physics is designed against the spy allowing his detection by his very reaction to the system.

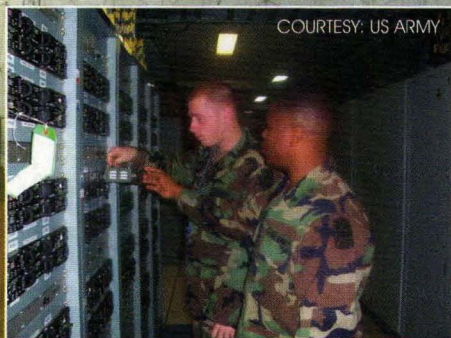
It might not just be signals sent through the air via microwaves which carry problems for our eavesdroppers. New generations of computers using laser light as an information carrier could make emails and Internet communications as difficult to intercept and understand. If quantum computers ever become a reality, this could simply add to the problems.

The twisting of light will probably spell major trouble for eavesdroppers for some time to come, unless the intelligence world has sufficient scientific methods to work around or through the problem. It is therefore not surprising to learn that Padgett and his team have already been approached by

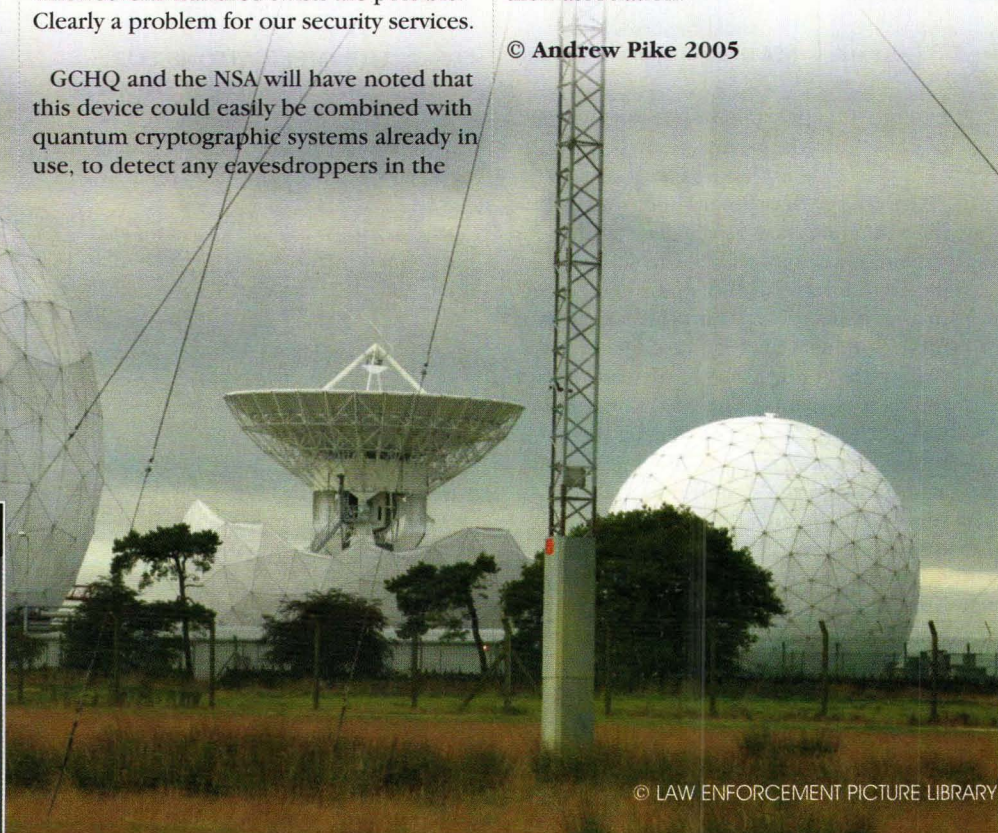
British Intelligence officials to work with them and develop the technology.

Mr Padgett has confirmed he is unable to speak about this 'approach' because of secrecy clauses already introduced into their association.

© Andrew Pike 2005



COURTESY: US ARMY



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Al-Qaida Claim it Shot Down RAF C130 Hercules in Iraq

The circumstances surrounding the crash of an RAF C130 Hercules transport aircraft 20 miles north of Baghdad, are still being investigated by the Ministry of Defence. Ten servicemen died in the incident, including a five-man crew from 47 Squadron, a unit specially trained to fly with British Special Forces. Another serviceman was believed to be attached to the SAS. The aircraft was on its way to the US air base at Balad.

Within hours of the crash that occurred on 30 January, a group linked to al-Qaida released a video tape showing two missiles being fired skywards and then aeroplane wreckage. A statement from the group said it had shot down the C130 as it flew low over dangerous terrain with an anti-tank missile.

Intelligence officials refuted the claim within hours of discovering the wreckage. The wreckage was spread far and wide and in many pieces suggesting the aircraft had been at fairly high altitude when disaster struck. Had the al-Qaida claim been true - that the C130 was flying low - then the resultant wreckage would have been much closer together and the pieces much larger. The video tape undoubtedly shows the wreckage of the Hercules, but analysts believe the

missile footage was simply spliced in. This is apparent when watching the grainy film. Also the trajectory of the missiles suggests they were firing at a much higher target.

The Kornet anti-tank missile does have an 18,000ft range, but the C130 has a ceiling height of 33,000ft. A typical SAM 7 surface-to-air missile has a range of just 7,500ft.

While the MOD refuse to speculate what brought the aircraft down, some analysts believe that an internal explosion in the cargo hold may have been responsible. The C130 regularly carries explosives and shells to forces across Iraq. "The C130 carries a very sophisticated anti-missile warning system and other protective devices," a former special forces officer told Eye Spy. "Whatever happened must have happened quickly. It could have been an internal explosion." A number of eye-witnesses have come forward to say the aeroplane simply exploded in mid-air with parts flying everywhere.

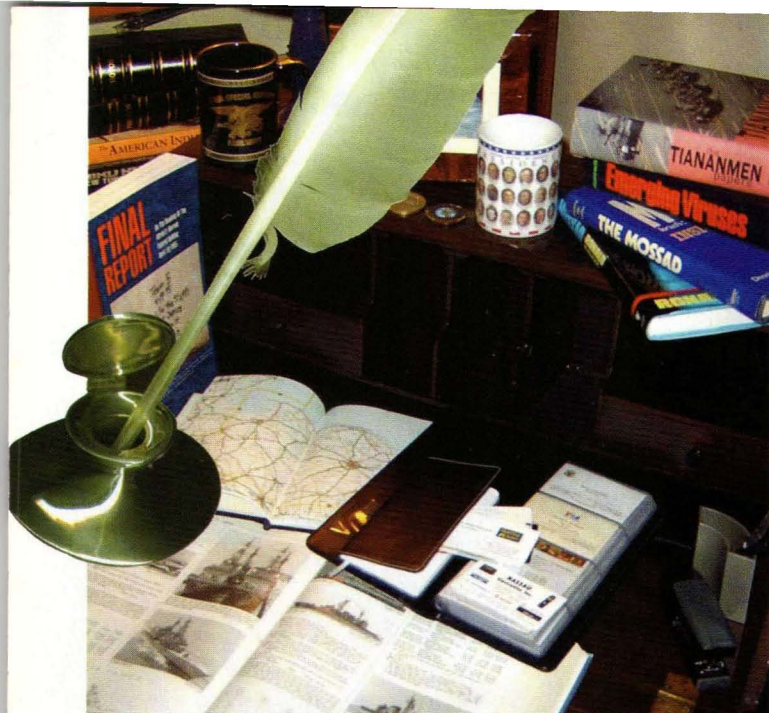
The C130 pilot was Flight Lieutenant David Stead, an experienced flier who performed numerous operations in Afghanistan as al-Qaida and the Taliban were ousted.



Flight Lieutenant David Stead
COURTESY: MINISTRY OF DEFENCE



undercover



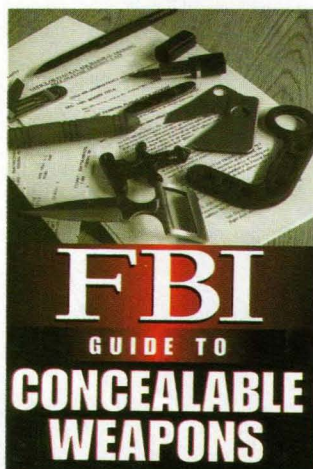
FBI GUIDE TO CONCEALABLE WEAPONS

Paladin Press
Softback 86pp
ISBN 1-58160-447-5

In the wake of the 11 September 2001, airline hijackings, the Firearms and Toolmarks Unit of the FBI laboratory started a collection of small, easily concealed knives and other potentially lethal objects. The collection was compiled into a catalogue containing photographs of each weapon along with a brief description, scales for size reference, and in many cases, X-ray images to show how the item might look if it passed through a scanning device.

The *FBI Guide to Concealable Weapons* has been distributed to airport screeners and law enforcement agencies across the United States to alert them to the presence of weapons, but now this information is available to every citizen who wants to be prepared to face future attacks.

In this reprint of the FBI's catalogue, you will see metal, plastic, and ceramic knives hidden in pens, keys, belt buckles, jewellery, canes and cigarette lighters, as well as impact weapons disguised as keychains and items hollowed out for the possible concealment of explosives.



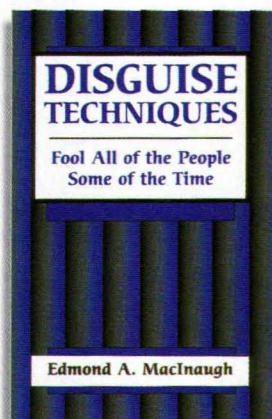
Whether purchased simply as novelty items or as weapons, each of these objects must be viewed with its lethal potential in mind. As citizens responsible for our own safety, we must know everything possible about the dangers that face us. The fascinating and informative book helps promote that awareness.

 **Available from Eye Spy**
ES/966 £18.00 \$25.00

DISGUISE TECHNIQUES Fool All of the People Some of the Time

Edmond A. MacInaugh
Paladin Press
Softback 82pp
ISBN 0-87364-307-0

Whether you work in the intelligence business as an undercover agent, or simply want to go shopping and not be noticed, this gem of a book explains the secrets of disguise.



Like the chameleon, you too can blend in with any surrounding, better still, become 'invisible' using the tried and trusted methods devised and used by leading professionals for decades.

There is much more to a successful disguise than a simple change of clothes or splashing on a little extra make-up. With imagination and acting ability to guide you, no one

will ever know who you are. Learn to 'size up' people with a delicate glance, and change your personality and persona. Similarly, understand when it is time to discard your disguise.

Since people see only what they expect to see - and not what is really there - you can use the wealth of information in this manual to fool all of the people some of the time. With training and experience, your chances of success increase.

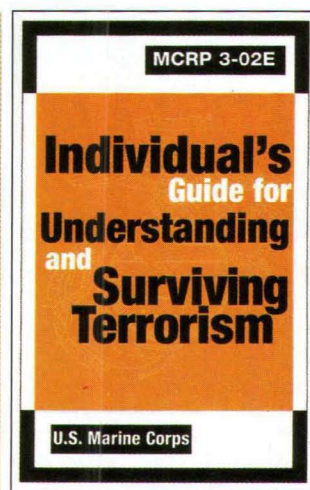
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INDIVIDUAL'S GUIDE FOR UNDERSTANDING AND SURVIVING TERRORISM

US Marine Corp
Paladin Press
Softback 58pp
ISBN 1-58160-449-1

As guards for all United States embassies abroad, including those in the world's most volatile hot spots, US Marines are among the foremost authorities on how to prepare for and prevent terrorist activity. This reprint of the official manual distributed to all Marines serving overseas reflects their expert practical knowledge. It contains dozens of simple tips to lower your profile and make you and your family less of a target for terrorists, as well as courses of action you can take should you ever find yourself in the midst of a terrorist attack. Just a few of the tips and tricks included in this important book:

- General characteristics of today's terrorist groups
- A complete plan to 'harden' your home and go about your daily routines to effectively discourage terrorists (or any criminal) from selecting you as a target
- Special ways to prepare samples of your handwriting and voice beforehand to help authorities in your identification and safe recovery
- A simple thing you can leave behind in a hideout to assist rescuers if you have been kidnapped
- The two most dangerous times during a hostage crisis
- How you can expect to be treated by the hostage takers, and how to best interact with them while you await your release or rescue
- A simple 50-cent modification you can make to your vehicle to thwart a common terrorist
- The safest floors to request in a hotel to protect yourself from terrorist activity or any other emergency



• Special preparedness and reaction guidelines for children

If you want to maximize your own and your family's safety in the face of today's terrorist threat, learn from the professionals who face this threat on a daily basis.

Eye Spy recommends you make this US Marine Corps manual a part of your home protection library. Study its contents thoroughly, because one day it might just save your life.

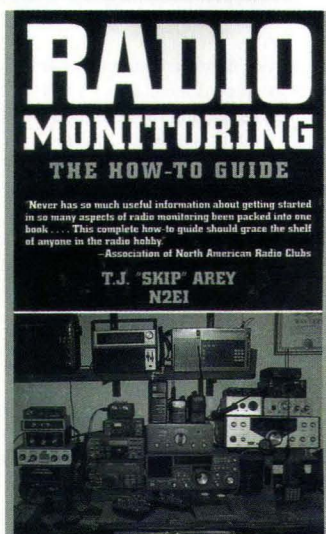
 **Available from Eye Spy**
ES/971 £12.00 \$18.00

RADIO MONITORING The How-To-Guide

T. J. 'Skip' Arey
Paladin Press
Softback 334pp
ISBN 1-58160-405-X

This is a very big book packed with information that should be of interest to everyone working in the security and intelligence world. Equally, it helps those not too familiar with understanding equipment and tools used by surveillance operatives. Easy to understand and packed with hundreds of photos, the author quickly sets out the differences between FM and VHF and gives examples of what to use and why.

Radio Monitoring walks you into a world of action, adventure, intrigue and awareness. The good news is, you don't even have to leave the comfort of your front room! This book tells you exactly how to capture radio signals from down the street, across town, around the world, and even from space, allowing you to become informed far beyond the



scope of commercial television and radio broadcasts.

By following the guidelines in this book, you will be able to explore the world of fast breaking news, foreign broadcasts and conflicts, military action and decision making and, just for good measure, a few hundred tips on intelligence broadcasting, covert services, international politics, local and international government broadcasts, ships at sea, cellular phone traffic and more.

Study the content and use wisely and responsibly. Don't forget also to purchase one of our fantastic FM or UHF receivers!

 Available from Eye Spy
ES/964 £25.00 \$35.00

KILLING ZONE: A Professional's Guide to Preparing or Preventing Ambushes
Gary Stubblefield and Mark Monday
Paladin Press
Softback 240pp
ISBN 0-87364-786-6

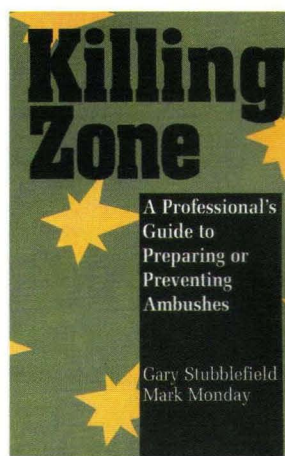
It's a word that sends chills down the backs of those who run powerful governments and makes brave men quail. It battered and bruised US troops in Vietnam and led indirectly to the collapse of the vaunted Soviet Bloc. As a tactic, it is only a little younger than the hills that hide it practitioners.

In today's world, a thorough knowledge of the principles and techniques of the ambush and counter-ambush has become a life-and-death matter for everyone; bankers, soldiers, government officials, corporate executives, and indeed, even tourists. In *Killing Zone*, the authors provide you with this vital knowledge in a three-module approach:

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riverine attacks to medevac ops
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Whether your need is to destroy the enemy by quick shock action, prolong war and ultimately win by attrition, or protect yourself against terrorists who attack on busy downtown streets and well-travelled suburban roads, *Killing Zone* will help you understand and learn. Use responsibly.



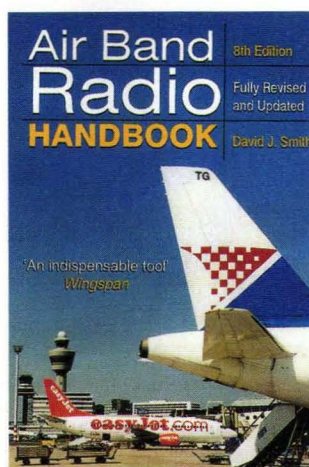
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ES/960 £25.00 \$40.00

SPEAK LIKE A NATIVE Professional Secrets for Mastering Foreign Languages
Michael D. Janich
Paladin Press
Softback 122pp
ISBN 1-58160-452-1

Speak Like a Native is a distillation of successful rules, tips, and strategies used by the author and other professional linguists from the US State Department, National Security Agency, Central Intelligence Agency, Defense Intelligence Agency, and other US and foreign government agencies. It is one of the most complete and logically structured guidebooks for language study ever assembled. The book comprises of several chapters including:

- The ten rules of learning a foreign language, which will allow you to begin your study with a proper mindset and a series of realistic goals and expectations
- The author's twelve-step process for learning a foreign language, a series of activities designed to help you understand the nature of your target language, establish your own definition of fluency, assemble the right materials, organise your own study, and structure ongoing programmes to achieve your long-term linguistic goals
- Fifty proven tips and strategies that professional linguists, interpreters,

SPECIAL OFFER FOR EYE SPY READERS



AIR BAND RADIO HANDBOOK 2005
David J Smith
Sutton Publishing
Softback 208pp
ISBN 0-7509-3783-1

This timely book is now in its eighth year of publication and could augment any number of the scanner books reviewed in this edition of Eye Spy.

Air Band Radio is the means of communication between aircraft and those on the ground that control them. For more than fifteen years, the *Air Band Radio Handbook* has been acknowledged as the essential

reference for both ground-based air band listeners and flyers.

Air traffic controller David J. Smith's accessible and comprehensive text explains the intricacies of air traffic control and its jargon, enabling the reader to locate and interpret what is actually going on in the airways overhead. He also describes the types of air band radio and how to use them.

Now available again in this fully updated eighth edition, the *Air Band Radio Handbook* includes the very latest on Air Traffic Control including the newly opened UK Swanwick Control Centre, the use of datalink by Oceanic Control Centres and the reduction in the use of High Frequency, changes to Departure Flow methods, and a completely new chapter on air band radios and related publications for the enthusiast - both in print and on the Internet.

"Even an airline caption could learn something from this book" - Stewart Aviation

"Anyone wishing to take up the hobby cannot really do without it," - Aviation News

"As informative to the flyer as to the air band eavesdropper" - Pilot Magazine

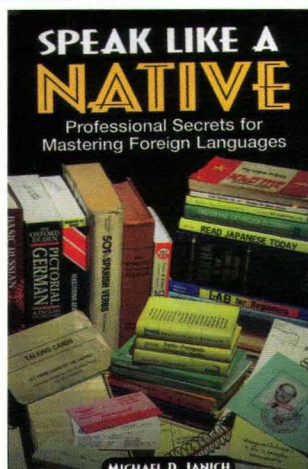
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and translators have used to accelerate and enhance their study and application of foreign languages.

Many people are terrified to even begin studying foreign languages, but Janich has done his apprenticeship with so many agencies and has produced a book that is easy and simple to follow. Hundreds of questions answered and explained and no matter what language you want to learn, this book can really help you to speak like a native. An invaluable tool for your trade library.

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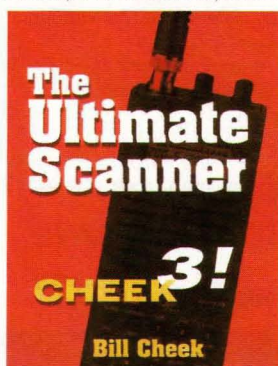
THE ULTIMATE SCANNER - CHEEK 3!

Bill Cheek
Large Softback 242pp
Paladin Press
Large Softback 240pp
ISBN 9 781581 600643

One of the most sought after titles and another telephone-size book from Paladin. In 1991 Cheek wrote the best-selling *Scanner Modification Handbooks*, and since then has continued to publish the influential monthly magazine *World Scanner Report*. It is a quite impressive update on the scanning scene - a subject that has gradually emerged from the shadows of hobbyists through the computer era, and is now a dedicated tool for professionals all over the world. Of course the enthusiast and newcomer is still accommodated in this book, as Cheek adds fun and functionality to radio monitoring. One reviewer described it as a "turbo-whopper of a radio receiver with wires, dials, knobs, switches, and meters that were never on the manufacturer's plans!"

What is The Ultimate Scanner?

It's a way to have it all. To cover all the bands, all the channels, and to



miss nothing unless you choose to exclude it. It's a system that gives you total control over everything that comes out of your speaker. It's the best in modifications: expanded memory, cellular coverage, computer interfaces, data tone, squelch and much, much more!

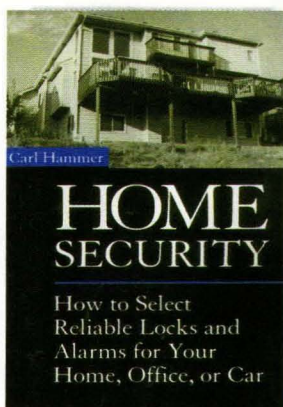
Cheek is renown in the electronics world for taking something and making it better. This book explains why the former US Navy technician and Vietnam veteran is held in such high regard.

 Available from Eye Spy
ES/963 £34.99 \$48.00

HOME SECURITY

How to Select Reliable Locks and Alarms for your Home, Office or Car
Carl Hammer
Paladin Press
Softback 248pp
ISBN 1-58160-121-2

Eye Spy has received hundreds of requests for a book that provides



information on security that will help keep you and your family safe; how to secure your home, office and much more. We have studied various books and numerous UK and US government brochures on these matters, but none match this superb effort by Carl Hammer. Everything you require from what bolts to fit to a door - to alarm systems and even advanced descriptions on using the right screw for the job is here.

Burglary is no mere inconvenience and no insurance settlement will cover the feeling of vulnerability you'll suffer if your sanctuary is violated or family members are injured or even killed.

Home Security reveals how burglars actually target and break into buildings and then demonstrates proven tactics and techniques for thwarting would-be intruders. From neighbourhood vandals to the most sophisticated art thieves and government agents. The advice includes dozens of low-tech, low-cost, low-maintenance measures to safeguard your home inside and out. An extensive section on alarms shows you the best way to install a secure system based on your individual needs, as well as how even the most expensive of these systems can be circumvented if you are not careful. The last part of the book details reliable home safes, safe gun storage solutions, vehicle alarms, specific problems for shopkeepers and how they can be solved, and other special situations, including how you can protect yourself and family members when you are away from home. In the war against burglary, knowledge is your best defence.

 Available from Eye Spy
ES/988 £22.99 \$32.00

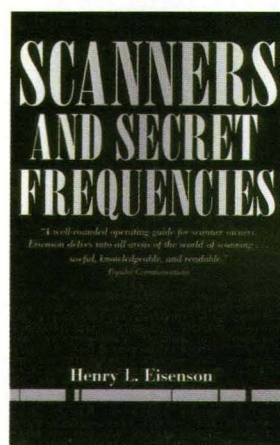
SCANNERS AND SECRET FREQUENCIES

Henry L. Eisenson
Paladin Press
Softback 314pp
ISBN 158160-072-0

This is an absolutely brilliant and no-nonsense book that is equally at home in a professional's hands, as it is to those of us who just want to understand scanning and secret

frequencies. It provides much needed technical information, but above all, is easy to use and gives the reader more of an insight into operational frequencies, precautions and the law. Whilst it is mainly of a tutorial nature, the author warns right from the beginning that it is packed full of information that "someone would rather was never published." Obviously that someone could be described as the Government.

Twenty-three chapters cover every aspect of scanning. From learning what radio is and how it works, searching for government frequencies, industrial radio, military radio, telephone, finding frequencies, search lists, advanced scanning and interesting sections on codes, dialogues, clubs and associations. The author often injects humorous anecdotes to explain situations and how to adapt. Diagrams and photographs augment a very well written book. For hobbyists and those too frightened to try and use secret frequencies it is a gem, for professional scanners and those who work in the surveillance and security industry, it is a must. *Popular Communications* magazine described it as a "well-rounded operating guide for scanner owners... that delves into all areas of the world of scanning... useful, knowledgeable, and readable."



 Available from Eye Spy
ES/967 £25.00 \$38.00

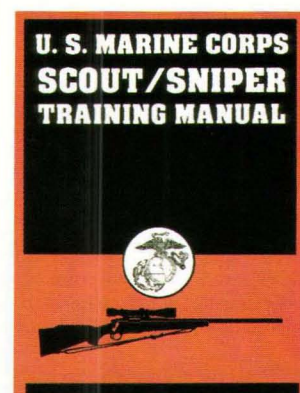
SCOUT/SNIPER TRAINING MANUAL

US Marine Corps
Desert Publications
Large Softback 200pp
ISBN 0-87947-094-1

This is a authentic reproduction of the *Scout and Sniper Instructor Manual* for special training at the Marine Corps Development and Education Command in Virginia.

The manual takes the student through every area of scouting and sniping, with sections on equipment, tools of the trade and objectives. From attacking a fortified area to learning how to make a river crossing, guidance

and advice flow the instructors who have seen and done it all. Knowledge gained in the armed forces usually allows for a better understanding of life in general, thus it is not surprising that this manual sets forth its pages in a strict and precise manner. Every step is given from dress, equipment choice, environment choice and even aftercare of the weapon. And there are bits of information that cannot be found anywhere else. The student is given the right advice on how to operate in the desert and Arctic; from swamplands to parklands, in an open environment to a city street. From how much lubricant to use in certain conditions on your rifle, to what type of clothing not to wear in others, the manual is packed with all you need to know.



Other interesting areas include: point reconnaissance, combat patrols, economy of action, security, ambush, search and attack, planning, surveillance, mobility awareness, special considerations, operating in the dark, equipment choice... and even what to do if you miss!

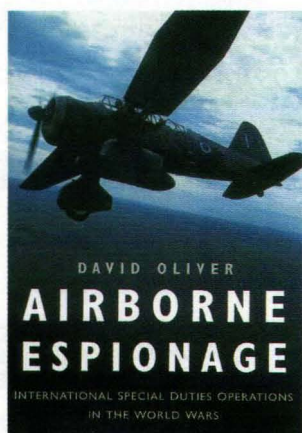
This is a broad manual that covers both the scouting and sniping environments. It is not as detailed as other works, but does provide useful information on all areas. It is a fascinating book that is an essential companion to works like *The Ultimate Sniper*.

 Available from Eye Spy
ES/959 £29.99 \$40.00

AIRBORNE ESPIONAGE

International Special Duties Operations in the World Wars
David Oliver
Sutton Publishing
Hardback 250pp
ISBN 0-7509-3870-6

Operating in all weathers, invariably at night and at low level and usually without fighter escort, Allied 'Special Duties' (SD) squadrons and units paid a heavy price in aircrew killed and missing in WWII. By their very nature, these operations went unreported in wartime and for some considerable time thereafter, but their importance in prosecuting the war of resistance in Occupied Europe was immense.



To put the cost of supporting Churchill's undercover army of resistance into perspective, for every SOE, SIS or OSS agent who lost his or her life in the field - more than 400 - at least one RAF or USAAF (United States Army Air Force) airman was killed while flying SD operations.

This is the first book to cover SD activities from their origins in WWI. In 1914, there was no formal organisation for transporting 'spies' across enemy lines by aircraft and no communications network between the air forces and their agents, apart from homing pigeons and the

occasional telephone call. Although dedicated air units had been established by 1939 to fly the spies - or 'agents' as they were then known - their aircraft were *band-me-downs* and their aircrews considered the SD role as a poor third to the more glamorous world's of the fighter and bomber crews. However, the tasks undertaken by these men were more hazardous and demanding than any other type of wartime flying.

This is an exceptionally interesting book that delves into a relatively unknown area of espionage. A splendid effort supported by a well-researched text and some fascinating stories.



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SOE'S ULTIMATE DECEPTION

Operation Periwig

Frederic Boyce

Sutton Publishing

Hardback 244pp

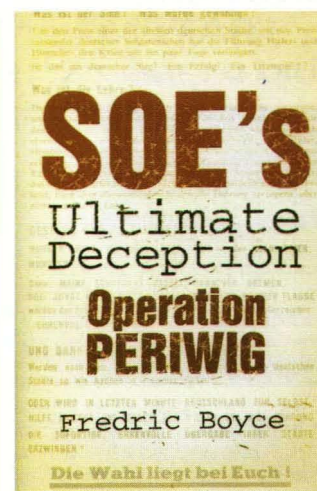
ISBN 0-7509-4027-1

In the closing months of WWII in Europe, General Dwight D. Eisenhower exhorted the Western Allied Forces to redouble their efforts to break the German will to resist. In

considering this appeal, General Gubbins, whose Special Operations Executive (SOE) had accomplished much in the liberation of occupied territory, was faced with a fundamental difficulty in the case of Germany. Although some opposition to Nazism existed, it was neither organised nor pro-Allied. He could not see how he could foment administrative breakdown within the Reich to assist the Allied forces in overrunning Germany.

Then someone had the idea of creating an entirely fictional German resistance movement and 'selling' it to the Nazi security authorities. Thus Operation Periwig - SOE's enterprising plan to destabilise the Third Reich from within - was born. In cooperation with the Political Warfare Executive (PWE), SOE set about the planning. From January until April 1945, the Allies rained propaganda leaflets on the retreating German troops and displaced civilians fleeing the oncoming Allied ground forces; they broadcast messages to the 'resistance'; they planted the most scandalous lies about eminent Nazis; and at the end they even dropped four agents on fictitious missions.

At last a book solely dedicated to Periwig! Frederic Boyce sheds new light in the vested interests and



infighting between Britain's secret organisations in the final stages of the war. SOE's imaginative response to Ike's appeal and the sheer audacity of the operation itself demand to be told to a wider audience.



Available from Eye Spy
ES/969 £21.50 \$45.00

The Ultimate Sniper: Advanced Training Manual for Military and Police Snipers

By Major John L. Plaster, USAF (Ret.)

Paladin Press, Very Large Manual 453pp
ISBN 0-87364-704-1

This huge manual arrived at the offices of Eye Spy on the back of dozens of complimentary comments and a tow-truck. Written by a man who served with top secret unconventional US Special Forces units behind enemy lines (Laos, Cambodia), Plaster was assigned as an intelligence-gatherer and was himself a master marksman who has won a huge number of honours. Combine Special Forces training, intelligence gathering and sniping, you can soon understand why the title of this spectacular book was chosen.

Plaster provides a unique insight into the often lonely world of the military

and police sniper. And though the trade is the same, there are significant differences in how a police or military sniper operates. Besides the situation and arena being different, a military sniper, for example, is advised to take rations with him for seven days. Just one day's supply is recommended for a police sniper. The types of environment, clothing and concealment skills are often different, and even the weapon and bullets vary at times. What doesn't change is the fact that a sniper is usually a very good shot at distance.

This is a manual used by ALL the world's training schools and contains a plethora of essential information.

Twenty-two massive chapters cover:

Modern sniper rifles, scopes, bullets and ballistics, marksmanship, range and wind estimation, hideaways, spotting and target detection, camouflage, stalking and mantracking, countersniping, special sniping operations and environments, the all-important differences between military and police sniping... and much more.

The author explains what essential tools and kit to take, from the right sort of plaster to using the correct cleaning fluid. Communication skills and equipment are important, especially as your life depends on your invisibility.

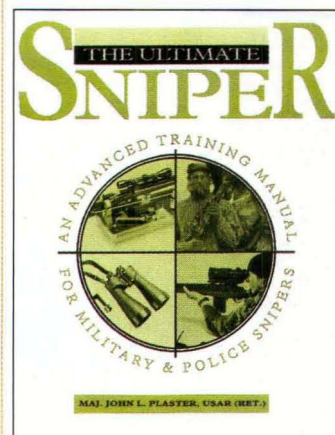
It contains hundreds of fascinating and explanatory photographs, diagrams and drawings, charts and sidebar information compliment other essential information. An outstanding and complete glossary of sniping and marksmanship terms augment an easy-to-read book. And the fact that this book is so big is not due to anything other than the author's incredible knowledge on sniping.



There are three great skill areas of sniping - marksmanship, fieldcraft and tactics. *The Ultimate Sniper* is not just a product of these skills, but also Plaster's huge experience in the intelligence-gathering business.



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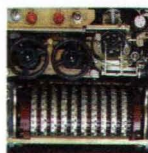
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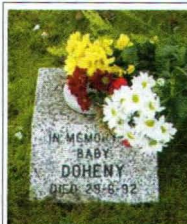
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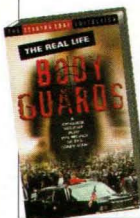
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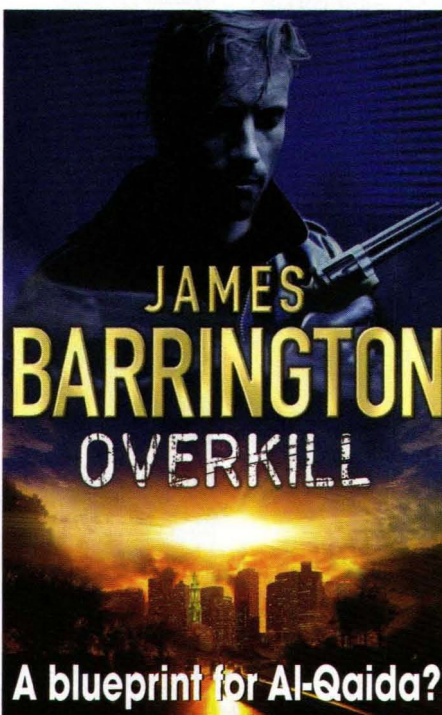
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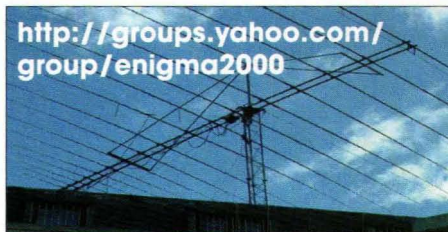
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Continued from page 5

Israeli researchers have developed a pen-like device which can detect improvised explosives, commonly used by terrorists to carry out deadly attacks.

Nicknamed the PET, which stands for Peroxide Explosive Tester, it was devised by a team headed up by Professor Ehud Keinan, dean of the faculty of chemistry at Israel's prestigious Technion University, in the northern port city of Haifa.



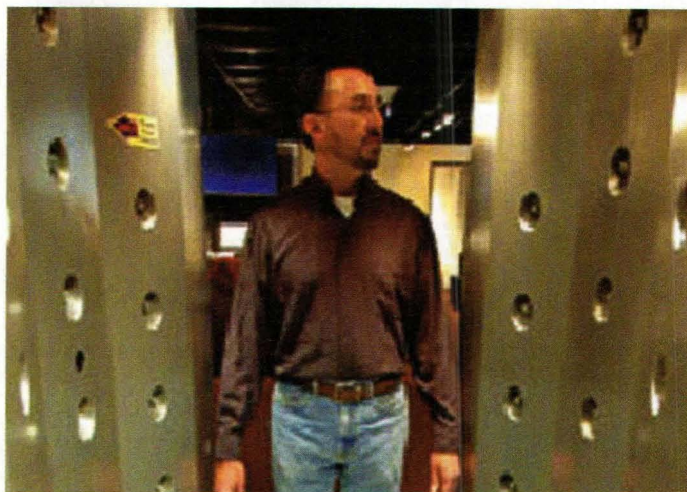
A detection device that can quickly analyse deadly chemicals is now widely used by US Homeland Security officer

TATP and other explosives of the peroxide family are used extensively by many terrorists organisations around the world for two reasons: they are easy to prepare and very difficult to detect.

THE 'SNIFFER'

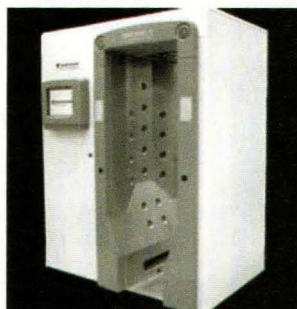
Airline passengers at a security checkpoint at New York's John F. Kennedy International Airport were screened last year for faint traces of explosives using a walk-through sniffing portal that incorporates explosives-detection technology originally developed at Sandia.

The Transportation Security Administration (TSA) purchased five Ionscan Sentinel Contraband Detection Portals from Smiths Detection and



The airport walk-through portal developed by Sandia

placed one of the portals at JFK's Terminal One. The portal remained at JFK for at least 90 days during a TSA pilot programme to evaluate emerging explosives detection technology. "Evaluations of these systems in real-world environments is critical to the successful deployment of new technologies in security applications," said Rebecca



This walk-through portal developed by Barringer Instruments can "sniff" seven passengers for explosives and chemicals every minute

Horton, Manager of Entry Control and Contraband Detection Department.

Pause for screening

The portals, which look like walk-through metal detectors, screen people for minute traces of explosives at checkpoints. As part of the screening process, airline passengers were asked to step inside one of the portals and stand still for several seconds while their carry-on bags are being X-rayed separately.

As each passenger pauses inside the portal, a puff of air dislodges particles and vapours from their clothing and skin. An air sample is collected and analysed. If traces of an explosive chemical are found, an alarm sounds and the passenger is questioned.

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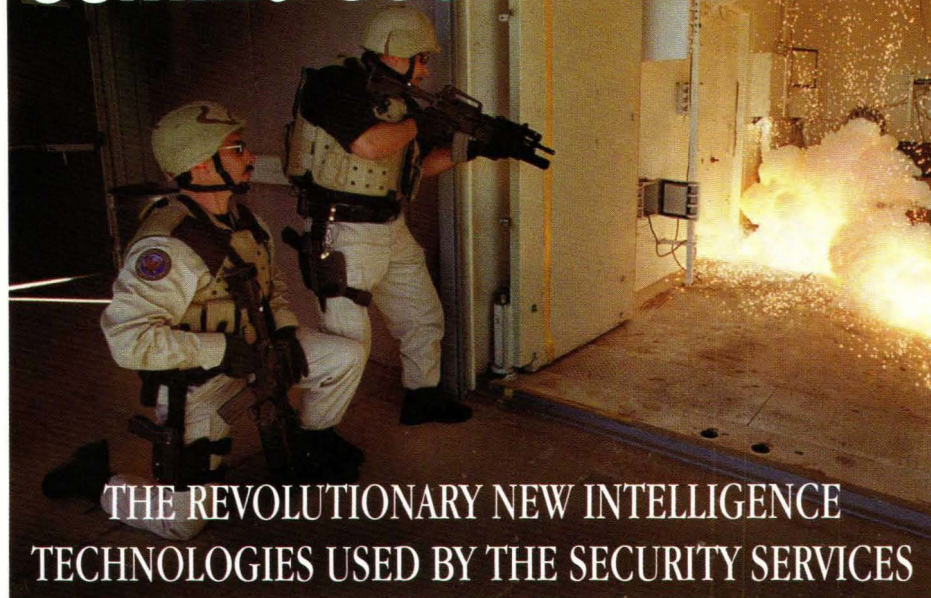
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