BOOK OF THE YEAR

Years ago Jacques Bergier co-authored The Morning of the lagicians, which I considered a bewildering but fascinating assortment of facts, theories, speculations, conjectures, and absurdities. Since reading his latest book, I'll delete the last word.

The first portion of Secret Armies traces the history of industrial spying, describes many lost discoveries, and is far more amusing than the average comedian.

"The special service set up in Essen in 1920 was able to keep the French from finding the giant cannon known as the Pariskanone which had bombarded the French capital in 1918:

they turned it into a huge factory chimney,"
"There is a tale of an industrial-espionage agent who, in the heyday of American industrial expansion, went from floor to floor in the HO of a very important corporation, pushing a small wheeled teacart and informing each office: Check on secret documents. Please put them on the table.' Legend has it he then rolled off with them and was never seen again!

One private detective wrote: "The victims themselves make things easier for industrial spies by marking their letters PRIVATE and CONFIDENTIAL and drawing attention to them."

The second portion remains fascinating but the mood changes - as it describes some proposed and actual weapons. "I am led to believe that work is being done on the creation of a field of force which could change all insulators into conductors, and vice versa. According to quantum theory,

this is quite possible."

One chapter describes secret manuals and magazines. If you enjoy reading Telco's confidential manuals, imagine what it would be like reading these! Polywater ('Polycrap", as one sceptic called it) is also mentioned. Also an H-Bomb "lightning rod", which would be effective, unlike the fraudulent ripoff Safeguard (sic) AR: system. For camera fans, "the Soviet FD3 manufactured at Riga, which is the envy of the whole world. It looks like a fine chronometric wristwatch, is practically undetectible, and takes excellent pictures. With slight modification of setting, it can be used for microfilming documents. Until now, no other country has turned out anything like it."

The search for invisibility is mentioned, of course. And there's the intermediate explosive. "One such exists, which an be made by mixing a common commercial detergent with aluminum powder. Police everywhere are terrified of this falling into the hands of bombers, who might blow up not only their target, but the entire neighborhood around it. For specialists, we may say that this involves some fifty megajoules per kilogram of explosive, without need for outside oxygen. (for comparison, a kilogram of TNT provides 4.2 megajoules). And there's the antipetroleum microbe, and Catalyst C, which would dissolve all paper.

The last third of the book continues in this vein: Satellites which can detect a single individual on the ground, or a submerged submarine even when it's not moving. Californium 252, which has a critical mass of only a few grams so that an A-Bomb could be carried in and fired from a rifle. It concludes by describing 17 possible "local" wars: South
Africa vs Black Africa, The Revolt Against Western Civilization, China Against India, X Against the United States, The Great Panic ...

One is reminded of H. G. Wells' statement that "Human history becomes more and more a race between education and catastrophe." We apparently are in the home stretch. I think I'll go fishing. Or feed the squirrels. Or drop acid at the Brooklyn Botanical Garden.

INFORMATION WANTED

Shhhh! Infrasonics and ultrasonics and microwaves, all of which are inaudible, can produce remarkable effects on people. A certain frequency around 7hertz will cause an involuntary relaxation of the anal sphincter muscles. Other frequencies will produce other remarkable effects - lethal if of sufficient intensity. Remember the Sonic Disrupters of Star Trek? We'd like more information about generators From 'The Big Brother Game: "a device which is about the size of a transistor radio and produces RF energy at a frequency of about 388mc. ... These devices are fairly simple to put together and the plans are commercially available... The French police are supposedly using a device which consists of a high frequency sound generator (about 25-35KHz) coupled to high efficiency tweeters and some concentrating baffles. The device vaguely resembles a hand held bull horn and is used for 'crowd control' ... "



NOV 1976

NO. 40

Dear Jim,

Letters can be sent free by a method that has not yet appeared in TAP. It is ecological to recycle old envelopes, and if the envelopes are the type which businesses use (that have the metered postage on them and are never postmarked), then a stamp isn't even necessary! A large number of this type of envelope can be obtained by filling out Bingo (Readers' Service) Cards in many magazines. Professional journals give the best results.

> Kercheeeeeeeep, Edward Extract Westchester Phone Phreak Ass'n (WestPhreak)

Dear Jim:

Enclosed is the Free U Catalog (a 16 page tabloid) and a

copy of our Alternative Technologies magazine.

If you purchase a service contract through IBM for your Selectric, you may be able to talk the serviceman into giving you several extra elements. That is the way we picked up a variety of typing balls. Once an element has been used, it can no longer be sold by IBM. Hence, if a serviceman replaces someone's element, he has one to give away. The service contract is great, I had about \$300 worth of work done on my machine for \$45.

We are presently in the market for a composer - a machine that will give us justified copy. We have been told that the best choice is the Compugraphic Execuwriter for \$3500. That's a little steep considering the fact that we gross only \$7,000 a year. If anyone knows of a reasonable priced used one, please inform us.

We'd like info on a Diesel powered heat pump mentioned in Barry Commoner's The Poverty of Power. I'm not sure that it is even manufactured. We can provide some info on electric cars. We are working on a design that should double the performance of EV's such as the Elcar and Citicar. We also have a design for a CB accessory that will provide a clear channel. It is similar but better than the design that Lafayette Radio uses. The repeater club here in Indianopolis has bypassed Bell's mobile telephone monopoly and has their own set up. This is a considerable investment but it's a lot cheaper than renting equipment from Bell.

> Icarus Free c/o FLEX 526 E 52nd St. Indianapolis, IN 46205

ACHTUNG!

For information about TAP in special media (Braille or cassette) contact: Steve, Care of R.C., Box 1241, GPC NY 10001. Must spell out "Care of".

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UP YOURS!

Tom Edison

Some of you may have noticed the new title for this column, formerly formor as Voids & Ends". I was underwheimed by the complete lack of reader response to my request for suggestions of a new title! Talk about apatiette, lazy bastards!!! The only response I received was from Sam, 1/2 of the notivins and infamous Lichfield Larcenists, who is now studying computers at a midwestern university. You really get to know who your friends are in a pinch. And speaking of TAP friends, let me welcome San W., the Polists Pribe of Partin, into our fold, iss Star's inferents are attailed removes the teather women, not necessarily in that order! The of the WP YOUNG Will access a reader's forum and as such I welcome the

letters containing new & interesting ideas, improved electronic circuits, and solutions to various problems. Newspaper items of importance will be reprinted along with my acid (I bope) commentary on what's really happening with all of the Big

Brother Monopolies.
This month's Big Brother Report is on Pa Bell's record
\$1 billion profit and the action taken the same day by N. T.
Bell to help celebrate Pa's killing:

AT&T Profit

American Telephone & Tele-graph Co. reported yesterday that its profit in the three-month period end Aug 31 timed 255 from the same issue a security to a record \$101 killing keeping as record way up 131%. Record \$1B

ripped open

Symman said the loose items in it in frequently are caused by poor night, said boats latels for boats contis are very low and we have that book publishers and record ness very often won't invest in good

Postal Service can auction become loose in the mail economic reason not to lo-

in rate hike request
NEWARK (AP) — Oral arguments
have concluded in a request by New
Jersey Bell for a 1531 million rate hate

As part of the rate hike consideration, the PUC will decide whether to allow New Jersey Bell to charge for directory assistance calls, as the utility has requested.

How's that for sticking it to us without any Vaseline? Pa Bell ani't to only monopoly sticking it to us! It locks like the Postal Monopoly has found a new way to substitize themselves using OUR undelivered mail:

WASHINGTON (AP) — If your collection of Conway Twitty's greatest hits ever arrived in the mail claudes are it is one for a good purpose — helping the ash-starved Postal Service solve its debt.

records from June 1 to Aug. 31 while 16 looks for alternatives to the auctions. The industries are pressing for an end to auc-

The Pouss Service is mainty profits in measure profits in measure all to loads and records from the residence have present a service profits of the service profits of the service profits of the service profits of the service and french that their meetans of the service has network other default get in the mail service the french french profits of the mail service the Fousi Service began in the mail store the Fousi Service began service the fousi Service began service the four service profits of the service profits of the four services of the four services

A spokeman for the financially troub:

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visit mail system was completed that
ear. The mail agency says boost and
rooffs are it biggest problems in the

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Jersey Bell heard

U.S. to auction mail

The Postal Service has amounced

Of course, there are ways to put some sand in THEIR Vaseline fro, both legally and otherwise:

Suit attacks

Their Mail

mail monopoly

WASHINGTON (AP) — A former posimater feneral in leding a right alteragainst the wholl showed as a tract
minder of wholl showed as a ferrily
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mental inwant challenging the conmental and the format of the format of the
mental in the monopoly was created by
feleral law. To severtain,

Grounded "We want to have available to us the afternative of using private carriers." he had in as interview Thursday.

ability.

Palice and that the charges against Brown Sett., 20, of such that the charges are the charges and the charges are the charges of the charges and the Sails and Law Bartes and La Two Ocean County men have been charged with running down more than 350 curbside mailoxes in Lacey Township and adjacent Berkeley Township

issue of TAP. With the opening of scincol and the start of my classes in September. I just dirift have the line to write them up. Besides, Mr. Phelps had been bitching that he had remongh shit already typed to fill an issue. Even though it hurs my ego to admit it, the Cot issue was excellent in my control. I wonder if the Borden Company will appreciate the sharp increase in sales of Elmer's Mail at 14 like to think to crease? Jun has done for Elmer's Mail art of like to think. I've done for the manufacturers of 10 K char resistors. I MFD capacitors, and 56 volt Zener diodes! And speaking of 56 volt Zener diodes. I'll be damned if I could find one in Cin Sity the other and I was both pleased and annoyed-pleased to realize that all of you home fone experimenters are playing around with some of the circuits I've shown yet annoyed that you'd be greedy enough to wipe out the supply at all the stores! Couldn't you have left me one Zener?! My apologies for not having my columns ready for the Oct

A word of warning to all TAP military personnel screwing AUTOVON--Uncle Sam is apparently out to get you:

We'll catch vou

ALTONON the continue to use ALTONON the continue of the contin

According to Parker, once an illegue call he been identified, the rest is merely paper work. The abuser is confronted by his commander and asked to relimbures the government. "Our batting average is ex-cellent," says Parker. To the best of my knowledge, we have yet to lose a case."

rer, whose USAFE
N management team
d with improving the

Some of the unotificial calls reportly unocean were made to local auto garagm, civillan banking itscillites and seen to the Parkoy Club in London. The lichn's alternatives were to the Use III.

individual of placing a personal call. But it Capt. Jones calls Mrn. Jones in San Francisco, we have a pretty good idea it's not official business.

Let me end my column with a very enterprising news olip from the New York Dally News :

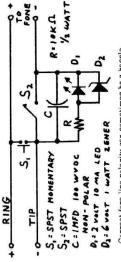
Xeroxing a Felony

Build a better mouse trap and some rodent will find a way to apring it.
That some to be happeng is Arres Copp., which are copying
matrice.— the 600 color model, and now counterfacts are, according to
figheri, unit put detects to turn out better mosey orders, food Lampa, specicrifficials and wondry paper currents.

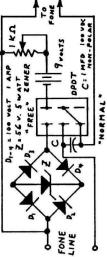
Following a West Count report that some corporations have formed a una present in government severence in define in factority. Evere unusued a sizement of marriery sound; "Arms Coup has been severe first a long time of the consern of severences, severences, beauty and financial included as and their selection of personnels are severences. As we are a severence of their long and collection of the severence of the severence of their News solutions are being in pipersonnels... O'result, we caterage particular of their selections are severed in pipersonnels... O'result, we caterage particular News also mad it feels it and points the use of its copers by its colorest following and their selections.

BLACK BOX UPDATE! Tom Edison

pleasure. The first is a Stop Lie trait will work on Boxed calls. If your will recell, the original Stop Lite (See Issue 429, Oct 1976) is connected in series with one side of the fone line which means that the lite needs to have the full line current (Livum through it to light the. When an extension from or party line ourrent change it should be the confidence of the sold of party line for its picked up, the line voltage trops and the line current unrough the lite decreases ausing the lite to go out out indicating that a "snoop" is listening in When Boxing, the 10 K ohm resistance reduces like current to such a low value that the lite cannot be lit. With this surount, a Light Emitting Diode or LED is used in place of the conventional snoop lite. The LED works on the low current level created by a Boxed call. The LED works on the low current level created by a Boxed call. The Zener diode across the LED is to protect the LED from the high 30-105 volt &C rhighing current. Now, if some nosy beaster drives to listen by your Boxed calls, you'll know about it. And please remember that if someone does pick up on my our Boxed calls, the billing WILL start at the local Coll This circuit will Will. Work white your own bettery to perate the foose carbon moutpheey out draw MC line current from the local CC You must also know your correct fone line Ring & Tip voltage polarity to operate the LED. Here are some new Black Box circuits for your listening



Correct fore line polarity can sometimes be a hassle, especially if your Black Box is a portable unit moved from room or room or house to bouse. An interesting solution to this problem is the Bi-Polar Auto Black Box:

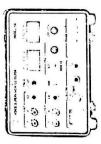


This is basically the same circuit as in issue #38 but in place of the rectified chose there is a full wave bridge with the 85 doi! Zerer diode across the DC output. The Zener diode will momenarily "answer" your fore regardless of line Ring & Tip polarity. The till wave bridge will rectify the AC ringhing voltage to a pulsating DC of the correct polarity to fire the Zener diode. With the switch in the normal position, the IMFD capacitor is shorted, the diode bridge is suit of the circuit, and battery is being supplied by the local CC. When your fore rings, flip the switch to the free position. This removes the short across the capacitor and puts it in series with the line, blocking any DC current from the CO but passing any audio signals. This also puts the diode orders across the fore line which then momentarily conducts to fire the Zener diode and stop your fore from Implicit or operation. Cheap full wave bridge rectifiers are asser time for persurent. Cheap full wave bridge rectifiers are available for This Radio Shack-Up. My Black Box Uprate wouldn't be complete without some info on the Black Box Detectors being built by Hekimian Labs:

VOICE SUPERVISION DETECTOR

MODEL 68

- C DETECTS BLACK BOX OR 2600 HZ FRAUD
- TOTALIZES OCCURRENCES AND TOTAL TIME ■ TIMED AUDIO AND A.C. OUTLETS
- MANUAL OR AUTO (OPTIONAL) FRAUD DEFEAT CONTROL



the Helminn Model B8 Voice Sonatrician Deliction is deligible to the character of Black 2 and 2 800 H1 faced. It combots the latest integrated and 2000 H1 faced. It combots the latest integrated contracter of Black 2 and 2 800 H1 faced. It combots the latest integrated contracter of the proposition integration recommended to the contracter of the sold street of the distribution for the selection models are altered the sold street of the call distribution of the call distribution of the call dustries of 100 H1 faced on the OCCUMPRENCES 1001H faced intelligence of the models of the call dustries of the models of the call dustries of 100 H1 faced occurred and may be timed out three switch selected intervals or life to contributions to wind an entire defected on the switched sold indicator light are also prounded. Black 800 H faced in effected by the service of the Size Size I study Court. Officions and hadd indicator light are also prounded. Black 800 H2 H2 and contribution to the size Size I supported the completion of the size Size I supported the size of the manager provided the support of the size of the manager of the size of the support of the size of the substitute as a support of the size of the substitute of the size of the substitute of the size of the support of the size of the substitute of the size of the s

activity. 2000 Hz fraud is detected by recognizing the preserca 2000 Hz. Protective circuitry guards against voice simulations.

When connected in seres with a subscriber's loop, sither SOOB for oilsteed Box fauld direction may be see-ted. The unit may also be bridged across the loop of only 3000 Hr direction is required. The unit is housed in a real in ogged transic case and may The unit is housed in a remail regged transic case and may be ordered with an opposit security look feature.

SPECIFICATIONS

| 1.0 dB. typical Greater than 100K Not required | 0 to 9999 occurrences manual reset 0 to 9999 minutes manual reset | 115 VAC at 100 watts 2.0 4mp a c maximum 600 ohm balanced 1, 2, 3mmutes or continuous | 105 to 125 VAC 50 60 m 9 watts 6" H x 9" (1 x 7 5" 0 | 8 l7s. |
|--|--|---|--|--------|
| INPUT Series Connection Insertion loss Bridging Connection Input impedance Ground Connection | TOTALIZERS Occurrences Total Time | ACCESSORY OUTPUTS Switched a.c. Dry Contacts Audio Timing | POWER DIMENSIONS | WEIGHT |

TUNING YOUR ORGAN

Many people have at one time or another the need for accurate tones of a certain frequency for calibrating signal generators or an oscilloscope. We have in the past (Issues 7 and 12) shown that Touch-Tone phones and electronic organs have precise outputs and we have published the frequencies of the keys. Now, their is a simple, low cost frequency generator available. Altaj Electronics sells Kit 013 for \$15.75 (free postage), and it is advertised as a 1 MHz crystal-controlled oscillator with digitally divideddown outputs of 100 KHz, 10 KHz, 1 KHz, 100 Hz, 10 Hz, 1 Hz and .1 Hz. This is perfect for tuning the individual ranges of a signal generator, or making sure that your oscilloscope displays a square wave with 10 complete cycles occupying 10 divisions, when the time base is set at 1 milliseconds per division and feeding in a 1 KHz tone. Accuracy is .005% or better when adjusted with a frequency counter, which can be borrowed for the occasion.

These frequencies themselves are not especially useful, except that they are convenient for calibrating devices that will be used as frequency references. Send a check or money order to Altaj Electronics, P. C. Box 38544, Dallas, Texas 75238. Kit 014 is similar but uses TTL devices on the PC board instead of CMOS. Since CMOS uses much less power, we recommend it above TTL, so order KIT 013. The kit comes complete with all parts, PC board, but less power supply, which can be bought from them for \$6.50.

Due to the kit's low price, we do not recommend building it on your own and saving a few dollars. PC boards are to be preferred for IC projects because they solder quicker, and this means less heat to the chips. We suggest you buy the kit rather than attempt to etch your own board.

Dear TAP people,

Thank you for telling your readers about Dawn Enterprises' products: life extension data, vitamins and food additives, Libertarian Connection (our publication, which also contains life extension data). Unfortunately, you seem to have implied that we have available electronic plans from Don Britton Enterprises. In fact, we have no electronic plans, catalogs, or products. The Libertarian Information Cooperative has no connection (no pun intended) with the LC and the LIC's statement that Dawn Enterprises would forward letters to them was made without asking our permission. In fact, we will not forward letters to LIC, or any other organization. We would greatly appreciate your informing your readers of these facts. Sincerely,

Lisa Dawn Box 90913 Worldway Postal Center Los Angeles, CA 90009

40

Sorry to have caused everyone inconvenience. JP.

2 FOR 1

The best part of working at TAP is opening and reading the mail. Answering letters is also fun. Laying out issues is at least creative. Filling orders is a drag, and mailing out each issue has become incredible drudgery. Since no one has come in to help out, we will begin sending out issues two at a time. This will reduce our labor and postage and envelope costs by half. True, it will mean you will have to wait an extra month or so for every other issue, but it's better than if we decided "Fuck it!" and quit entirely, isn't it? If we had enough people we could put out a 24 page issue each month, and it's all the fault of you NYC area readers that we don't.

Back Issues are 50¢ each, 40¢ each if you order 30 or more.

Subscriptions - 10 issues - US bulk rate \$4. US First Class in plain sealed envelope \$6. Canada & Mexico stapled \$6. Foreign \$7. IMPORTANT! Include mailing label or Xerox copy when writing to TAP about your subscription. Book - Monopoly \$1.20

Courses - 50¢ each A - Basic Electricity. B - A. C. C - Basic Phone Operation, D - Amplifiers. Send only check or money order (NO CASH) to TAP, 152 W 42 Street, Room 418, New York 10036 This is a mail drop only.

OFFICE: 1201 Broadway, Room 608, New York 10001 HOURS: WEDNESDAY, 4 - 7 pm.

TAPT - shirts \$4. Specify size: Small, Med., Large, X-Large.

See #35 for list of earlier feature articles

35 - Bulletproof vests, parking meter locks.

36 - Ultimate (hah!) Red Box, TEL update, Discovering unlisted numbers.

37 - Report from NW Canada, CCIS report

38 - Jumping Water and Electric Meters and alternatives, Black Box info.

39 - Fighting the Biggest Monopoly, Free Postage, Free Xerox.

CAPTAIN CRUNCH IS OUT!

You can write him at: Capt. Crunch Consultants, P. C. Box 3729, Stanford, CA. 94305 or leave a message with his answering service (415) 965-1557.

COMING SOON!

REPORT FROM MERRIE OLDE ENGLAND It's not so merry in a Socialist Police State where Big Brother controls the Telephone Company, the Post Office, the economy, and people's lives. INTERVIEW WITH A GRAND GUY

He doesn't have a colored box, but he does some weird things with a phone.

Jail phone calls curbed in N.Y.C.

NEW YORK (UPI)-U.S. District Judge Marvin Frankel has ordered revisions at the federal detention facility in Manhattan to curb fraudulent Manhattan to curb fraudulent long-distance telephone calls by immates. The calls have cost an estimated \$100,000 since August 1975.

Frankel Friday ordered that the 23 pay telephones available at the Manhattan Correctional

Center be converted to "re-stricted dialing," which will

permit calls to the 212 area code only.

In addition, Frankel said, the center will install 22 long-distance telephones to be routed through a switchboard that will allow collect calls or calls to be charged to the inmates'

commissary accounts.

Advance written authorization by the inmate will be required for each call he wishes
to charge to his commissary
account, Frankel said.

The New York Telephone Company recently charged that its investigators had found that 24 per cent of the fraud in an area covering four million telephones had been traced to the 23 pay phones scattered throughout the

More than 100 prisoners were identified as having made a total of 200 fraudulent

a day to places as far away as South America. The company threatened to remove the phones, but was blocked by a present awayt charging the removal would violate their constitutional relatives and lawyers.



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