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TAP

NOV 1976 NO. 40

BOOK OF THE YEAR

Years ago Jacques Bergier co-authored The Morning of the Magicians, 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 long discoveries, and is far more amazing 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 Parisbanone 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 HQ of a very important corporation, pushing a small wheeled tesseract 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! Polymeter ("Polyurge", as one sequitur called it) is also mentioned. Also an H-Bomb "lightning rod", which would be effective, unlike the fraudulent ripoff Safeguard (etc) ABM system. For camera fans, "the Soviet FED manufactured at Kiev, which is the envy of the whole world. It looks like a fine chronometric wristwatch, is practically unbreakable, 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 can 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 antiprotoleum bomber, 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. JP

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'..."

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.

Kercheeeeeeeeep,
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 computer - a machine that will give us justified copy. We have been told that the best choice is the Compugraphic Excelwriter for $3600. There is 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 Indianapolis 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 62nd St.
Indianapolis, IN 46206

ACHTUNG!

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

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UP YOURS !

by
Tom Edison

Some of you may have noticed the new title for this column, formerly known as "Odds & Ends". I was underwhelmed by the complete lack of reader response to my request for suggestions of a new title! Talk about apathetic, lazy bastards!!! The only response I received was from Sam, 1/2 of the notorious and infamous Litchfield Sarcastics, 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 Sam W., the Polish Pride of Parlin, into our fold. Sam's interests are fast electronic circuits, fast cars, and even faster women, not necessarily in that order!

UP YOURS will act as a reader's forum and as such I welcome 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 hope!) commentary on what's really happening with all of the Big Brother Monsters.

This month's Big Brother Report is on Pa Bell's record $1 billion profit and the action taken the same day by N. J. Bell to help celebrate Pa's killing:

AT&T Profit A Record $1B

American Telephone & Telegraph Co. reported yesterday that its profit in the three-month period ended Aug. 31 climbed 22% from a year earlier to a record $1 billion. Revenues of $8.7 billion were up 13%.

How's that for sticking it to us without any Vaseline?

Pa Bell isn't the only monopoly sticking it to us! It looks like the Postal Monopoly has found a new way to subsidize themselves using OUR undelivered mail:

U.S. to auction mail ripped open

WASHINGTON (AP) — If your collection of Canada Twins's greatest hits never arrived in the mail, chances are it's again for a good purpose — helping the hard-starved Postal Service make its ends meet.

The Postal Service is selling packages from unclaiming off books and records after its new mail sorting machines have ripped them from their wrappers.

Spokesmen for the book and record industries said Tuesday that their members have not removed unprocessed damaged items that solve the Postal Service begs off automatic system "in arrival condition."

But in many cases, the book or record isn't damaged. It's simply separated from its packaging — and its address — on the machine. Jim Isbell in Iowa opens postal repossessions alone the exact book he wanted to be auctioned off after a Midwest postal period.

Congressional investigators have criticized some of the devices used to split packages on automatic machines that never mentions damage.

When the Postal Service has packed off books that became some of the mail that gives it an economic reason not to open the rightful owner, Jim Isbell in Iowa can buy the book individually at Iowa City and a lawyer friend Office Jackson reports.

The Postal Service has announced a moratorium on auctions of books and records from June 15 to Aug. 31 while it looks for alternatives to the auctions. The industries are pressing for an end to the sales.

A spokesman for the financially troubled Postal Service said no figures are available on the proceeds from postal auctions but the service's billion dollar book mail system was complained this year. The last quarter, the service lost books and records are its biggest problems in the mail system.

A spokesman said the same rules as for the U. frequently are caused by poor wrapping. He said broken cases for books and records are very low and we have found that most producers and record companies very often will create a good wrapping materials.

But industry representatives disputed that. Our packaging is as good now as it ever been, if not better," said Albert Hinkelman, president of Hinkelman and head of the postal committee of the Association of American Publishers.

Albert said the damage rate of a government mail cause book publishers to abandon the Postal Service for commercial carrier companies, despite the are mail rate on books.

Their Mail Grounded

Two Union County men have been charged with stealing more than 200 outside mailboxes in Linden Township and adjacent Berkeley Township.

Police said that the charges against Brian Thomas, 20, of West Twin River and Russell Wright, 19, of Linden, have been referred to the regional postal inspector.

Township Police said the two communities filed complaints Friday that mailboxes had been stolen in recent weeks. Bell Sales and Leasing in Wall.

According to Parker, once an illegal call has been identified, the rest is merely paperwork. The abuser is confronted by his commander and asked to reimburse the government.

"Our testing procedure is excellent," says Parker. "To the best of my knowledge, we have yet to lose a case."

Some of the unofficial calls recently uncovered were made to local auto garages, private banking facilities and even to the Playboy Club in London. Another call to Moscow was to the U.S. embassy, a spokesman said. One individual at the air base here has paid $549 for illegal calls. Another in the Wiesbaden area is the record holder thus far at $882. Parker said. (Courtesy Capt. Robert L. Tobias, HQ USA)

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

Xeroxing a Felony

Build a better mouse trap and some rodent will find a way to spring it. That seems to be happening in Texas Corp. which sells a better copying machine — the 6500 color model, and now counterfeiters are, according to reports, using the device to make not bogus money orders, food coupons, stock certificates and military paper currencies.

Following a West Coast report that some corporations have formed a task force with government agencies to defeat the racket, Xerox issued a statement yesterday saying Texas Corp. has been aware for a long time of the concern of various government agencies, banking and financial institutions and other industry organizations about the possibility of the Xerox 6500 color copier being used to illegally reproduce copies of various negotiable documents.

"Many solutions are being presented . . . Obviously, we cannot foresee all the groups of such provocative methods.

Xerox also said it has a "patent pending" system that will fix copies so the recipients "look," said a spokesman, "like a cherry is used in a bank robbery." A cherry. Makers requests for clue.

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

Suit attacks mail monopoly

WASHINGTON (AP) — A former postmaster general is leading a legal attack against the Postal Service that could end the lucrative selling mail, agency officials of dollars per year.

J. Edward Day, former postmaster general in the early 1960s and now a lawyer for an association of bulk mailers, filed the lawsuit challenging the constitutionality of the Postal Service's monopoly on short rates, or advertising, mail. The association was created by Congress last year.

"We want to have available to us the alternative of using private carriers," he said in an interview Thursday.

My apologies for not having my columns ready for the Oct issue of TAP. With the opening of school and the start of my classes in September, I just didn't have the time to write them up. Besides, Mr. Phelps had been bitching that he had enough stuff already typed to fill an issue. Even though it hurts my ego to admit it, the Oct issue was better for it in my opinion. I wonder if the Borden Company will appreciate the sharp increase in sales of Elmer's Glue-All that he helped to create? Jim done for Elmer's what I'd like to think I've done for the manufacturers of 10 K ohm resistors, 1 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 City the other day! I was both pleased and annoyed--pleased to realize that all of you home-type 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, Guys?!

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

We'll catch you

Those who continue to use AUTOVON and other military telephone systems for personal calls can expect to be billed at commercial long distance rates, if caught, according to a USAFE spokesman here.

In fact, reports show that more than $4,000 has already been collected from USAFE HQ here in a stepped-up effort to outlist such abuse.

"The word is out," says Maj. Jim Parker, chief of USAFE AUTOVON management. He is charged with improving the Air Force portion of AUTOVON in Europe.

"We don't have to listen in on a conversation to suspect an individual of placing a personal call. But if Capt. Jones calls Mrs. Jones in Nashville we have a pretty good idea it's not official business."

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

BLACK BOX UPDATE!

by
Tom Edison

Here are some new Black Box circuits for your listening pleasure. The first is a Snoop Line that will work on Boxed calls. If you will recall, the original Snoop Line (See issue #29, Oct 1975) is connected in series with one side of the line jack and means that the line needs to have the full line current flowing through it to light up. When an extension line or party line line is picked up, the line voltage drops and the line current through the line decreases causing the line to go out but indicating that a "snoop" is listening in. When Boxing, the 12 K ohm resistance reduces line current to such a low value that the line cannot be lit. With this circuit, a Light Emitting Diode or LED is used in place of the conventional snoop line. 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 90-105 volt AC ringing current. Now, if some nosy bastard tries to listen to your Boxed calls, you'll know about it. And please remember that if someone does pick up on on your Boxed calls, the billing WILL start at the local CO! This circuit will NOT work with your 24v battery supplied Black Box because with your own battery to operate the tone carbon mouthpiece you draw NO line current from the local CO. You must also know your correct tone line Ring & Tip voltage polarity to operate the LED.

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

This is basically the same circuit as in issue #36 but in place of the rectifier diode there is a full wave bridge with the 56 volt Zener diode across the DC output. The Zener diode will momentarily "answer" your tone regardless of line Ring & Tip polarity. The full wave bridge will rectify the AC ringing voltage is a pulsating DC of the correct polarity to fire the Zener diode. With the switch in the normal position, the 1MFD capacitor is shorted, the diode bridge is out of the circuit, and battery is being supplied by the local CO. When your tone rings, flip the switch to the tone 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 bridge across the line line which then momentarily conducts to fire the Zener diode and stop your tone from ringing. At the same time your own battery is connected to the mouthpiece circuit for operation. Cheap full wave bridge rectifiers are available from Radio Shack-Up.

My Black Box Update wouldn't be complete without some info on the Black Box Detectors being built by Hekimian Labs:

VOICE SUPERVISION DETECTOR

MODEL 68

- 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 Hekimian Model 68 Voice Supervision Detector is designed to detect and record occurrences of Black Box and 2600 Hz Fraud. It combines the latest integrated circuit technology with sophisticated detection techniques to insure reliable fraud detection. By totalizing both fraud occurrences and the total time of fraud duration it provides the user with extensive information on subscriber activity.

Black Box or 2600 Hz fraud detection modes are selected by a front panel switch. In both modes, each fraud violation is recorded on the OCCURRENCES totalizer. The total time, in minutes, of the call duration is recorded on the TOTAL TIME totalizer. Accessing the TOTAL TIME totalizer resets the Accessing totalizer on the switched ac, switched dry contacts, and audio are actuated by fraud occurrence and may be timed over three switch selected intervals or left on continuously until an on-hook or disconnection of the Black Box fraud occurs. Off-hook and fraud indicator lights are also provided.

Black Box fraud is detected by sensing the presence of voice energy without a predetermined amount of 2600 Hz or disconnection of the Black Box fraud occurs. Protective circuitry guards against voice simulation.

When connected in series with a subscriber's loop, either 2600 Hz or Black Box fraud detection may be selected. The unit may also be bridged across the loop if only 2600 Hz detection is required.

The unit is housed in a small rugged transit case and may be ordered with an optional security lock feature.

SPECIFICATIONS

INPUT	
Series Connection	
Insertion loss	1.0 dB, typical
Bridging Connection	
Input impedance	Greater than 100K
Ground Connection	Not required
TOTALIZERS	
Occurrences	0 to 9999 occurrences manual reset
Total Time	0 to 9999 minutes manual reset
ACCESSORY OUTPUTS	
Switched ac	115 VAC at 100 watts
Dry Contacts	2.0 amps at maximum
Audio	600 ohm balanced
Timing	1, 2, 3 minutes or continuous
POWER	105 to 125 VAC 50 or 60 Hz 9 watts
DIMENSIONS	8" H x 9" D x 7.5" D (with cover)
WEIGHT	8 lbs

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 divided-down 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 millisecond 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 frequencies to choose that will be used as frequency references. Send a check or money order to Altaj Electronics, P.O. Box 38544, Dallas, Texas 75238. Kit 013 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 30983
Worldway Postal Center
Los Angeles, CA 90009

Sorry to have caused everyone inconvenience. JP.

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 long-distance telephone calls by inmates. The calls have cost an estimated $100,000 annually.

Frankel Friday ordered that the 20 pay telephones available at the Manhattan Correctional Center be converted to "restricted dialing," which will permit calls to the 213 area code only.

In addition, Frankel said, the center will install 22 long-distance telephones to be rented 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 15-story jail.

More than 100 prisoners were identified as having made a total of 200 fraudulent calls a day to places as far away as South America.

The company threatened to disconnect the phones, but was blocked by a prisoner lawsuit charging that the company would violate their constitutional rights to communicate with relatives and lawyers.

The Record INFORMS

The Record is a FINK!

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 a different exercise. Filling orders is a drag, and putting 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.

TAP T - 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, C C I S 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. O. Box 3929, Stanford, CA. 94305 or leave a message with his answering service (415) 968-1557.

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.

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