



# TODAY

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## Plaza Moves Nearing Completion, Clarksburg Is Next

### COMSAT CENTRAL LIBRARY

Who said that death and taxes are the only sure things in life? If you work for COMSAT, you can probably add moving to the list—at least this year.

The first piece of good news is that relocations to, from and within the Plaza are nearing completion. The second bit of news—good or bad, depending on your perspective—is that moves to and within COMSAT's Clarksburg building will be completed in the spring.

This round of relocations aims at configuring COMSAT's family for greater efficiency. It seeks to use available resources to the maximum.

"With the move, COMSAT will no longer lease space outside of the COMSAT building at L'Enfant Plaza," said Alan Duncan, whose facilities staff has been choreographing the move since last summer. The credit union and Information Resources Management (IRM), former occupants of the Plaza's north building, are



being brought back into the COMSAT building.

When the consolidation is complete, COMSAT will occupy floors 1, 5, 6, 7 and 8 and a small space on the Promenade level.

Since late January about 100 World Systems Division employees have relocated from Clarksburg to the Plaza, while some 50 COMSAT Video Enterprises (CVE) employees have moved from the Plaza to Clarksburg, Duncan said. They will be joined this spring by co-workers from CVE's Memphis, Tenn., operation.

Also in Clarksburg, COMSAT will move out of the M&S Center building. Plans are to lease it. Duncan estimated that by the time all the Clarksburg relocations are complete, about 75 percent of the offices there will have moved.

Even the lobby at the Plaza is changing, he said. New carpeting, larger, more dramatic greenery and new wall hangings will give it an updated look.

## W-2 Forms Explained



This year's W-2 forms—which provide an accounting of the income you earned from COMSAT in 1987—may look a little more complex than in the past.

Understanding them can be simple, however, if you focus on box 10—total taxable income. The amount shown in box 10 includes all the money you earned during the year that is taxable. It does not include any pre-tax amounts you contributed to COMSAT's 401(k) plan.

Two points about this year's W-2 forms may be confusing.

First, you may have received two W-2 forms from COMSAT. If you did, do not add the amount on the second form (the one with information only in box 16) to the "total taxable wages" shown on the first form in box 10. Box 10 on the first form already includes the amount shown on the second.

You should have received a second

form only if you participated in COMSAT's Savings and Profit Sharing Plan *and* you elected Supplemental Life Insurance benefits over \$50,000. If you have Supplemental Life benefits over \$50,000, the IRS considers the premiums the company pays for that coverage as part of your personal income. The second form reports that income.

Second, if you had money taken out of your check and put in the company's 401(k) plan on a pre-tax basis, your W-2 form will show (in box 16) the amount you had deducted. That amount is not included in Box 10—total taxable income. Since the deductions you make to the 401(k) plan are taken out before your income is taxed, they are not added into your total taxable wages for the year.

The IRS requires information on contributions to 401(k) plans so that it can monitor taxpayer eligibility for claiming deductions for Individual Retirement Account (IRA) contributions.

### Parking At the Plaza

With the World Systems Division move from Clarksburg to the Plaza, the issue of adequate parking at the Plaza was bound to arise. Seeking to head off confusion over parking procedures, the COMSAT Security office last month updated its Plaza parking regulations.

According to Security, 52 additional parking spaces have been leased for COMSAT use on the 2-G parking level. Those spaces should accommodate the additional cars coming from Clarksburg, based on recent parking levels, Security noted in its advisory.

Employees will be given color-coded permits—blue for the 1-G or upper garage level, and red for the 2-G or lower level. Except for those employees with reserved spaces, parking will be on a first-come, first-served basis.

If you are unable to find a space—either on your assigned level or on the other level—you should:

- Leave your car with the Colonial attendant on 2-G. He will give you a

parking stub and park your car for you.

- Take the stub and your company ID to Security (room 1105). Someone there will give you a payment coupon.
- Give the payment coupon and the parking stub to the Colonial parking cashier, located on 2-G, as you leave.

An attendant will bring your car to you. The coupon should cover the full cost of parking.

Cars parking in some spaces on both levels will be blocked. If your car is blocked, you should get the permit number of the vehicle blocking you and call Security on the garage phone. Someone in Security will help you contact the person who owns the car blocking you.

If you are asked to move your car to let someone else out, you should do so as soon as possible.

Questions or inquiries for more information on parking should be directed to Security Supervisor Denise Isaac (x6617).

## Guide to Where They are Now

The listing below is a general guide to the whereabouts of COMSAT business groups and departments at the Plaza. "River" or "Plaza" after each group indicates the side of the building where it is located. "West" refers to the end of the building near the Postal Service headquarters.

A similar guide to Clarksburg locations will be published when moves there are completed in the spring.

### 8th Floor

Early Bird Room (River)  
Executive Offices (West)  
Tax (Plaza)  
Treasury (Plaza)  
Corporate Affairs and Government Relations (Plaza)  
Corporate Development (Plaza)

### 7th Floor

General Counsel (River)  
Corporate Secretary (Plaza)  
Corporate Services Facilities (River)  
Purchasing (Plaza)  
Information Resource Management (Plaza)  
Human Resources (River)  
Controller (Plaza)

### 6th Floor

World Systems Division  
Executive Offices (West)  
Finance (Plaza)  
Legal (Plaza)  
Government Relations (Plaza)  
Intelsat Satellite Services (River)

### 5th Floor (West)

World Systems Division  
Maritime Services (River)  
Marketing and Sales (Plaza)  
Contracts (Plaza)  
Technical Policy (Plaza)

### 1st Floor

Computer Center (River)  
Security (River)  
Telex Switch (River)  
COMSAT General Control Center (River)  
Theatre (Plaza)  
Credit Union (Plaza)

### Promenade

CSD Marketing and Business Development (River)

## Conference To Explore Future Of Satellite Communications

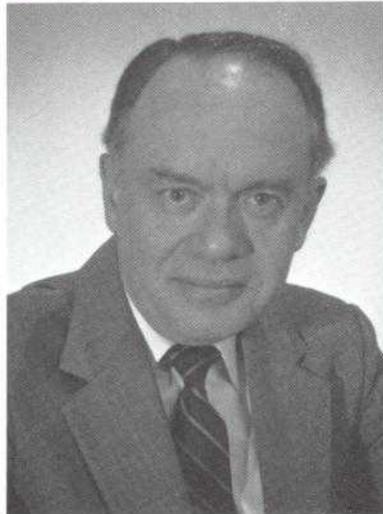
"The Next 25 Years in Satellite Communications" will be the topic of AIAA's upcoming International Communications Satellite Systems Conference, set for March 14-17 at the Crystal City Hyatt Regency Hotel.

COMSAT Systems Division's Denis Curtin is serving as the conference general chairman. It is the 12th such conference sponsored by AIAA (American Institute of Aeronautics & Astronautics).

"This conference is important to anyone in satellite communications," Curtin said. "It brings together experts from all over the world. About one-third of the technical papers presented are by overseas authors."

This year's conference will examine developments and changes in the field of satellite communications. It will include a one-day colloquium, plenary panel sessions, technical sessions and exhibits.

Dr. Burton E. Edelson, former director of COMSAT Labs and former Deputy Administrator of NASA, will moderate the opening plenary session on the next quarter-century of satellite communications. The session will feature speeches by luminaries in the satellite communications field.



*"This conference is important to anyone in satellite communications"*

Denis Curtin

Over 20 technical sessions will follow, with 120 technical papers scheduled for presentation. Topics range from mobile satellite systems and advanced communications payloads to small terminals and on-board processing technology.

INTELSAT Director General Dean Burch will be the featured speaker at the Honors Luncheon on March 17.

Approximately 20 companies, including COMSAT, will exhibit their products and services during the conference. A buffet reception will be held for conference registrants at the National Air & Space Museum on the evening of March 15.

The conference also will include two full-day colloquia—both on Sunday, March 13. The two sessions—one on "Satellite Systems & Technology" and the other on "Space Telecommunications and the Law"—will be presented by teams of acknowledged experts in their fields. Cost is \$100 to attend the pre-conference events. Registrants may spend time in either or both.

For more information about the conference, contact Curtin at x4474.

## CVE Launches Promotion: Satellite Cinema Sweepstakes

COMSAT Video Enterprises (CVE) this month launched its first consumer promotion, a guest sweepstakes, aimed at increasing hotel guest awareness and use of Satellite Cinema pay movies and TV programming as well as gathering demographic data about purchases.

Offered through a Guest Services Association insert that appears in the Satellite Cinema program guide, the "Satellite Cinema Sweepstakes" will award more than 500 prizes. Unfortunately, COMSAT employees may not participate.

Two grand prizes, a 7-day Caribbean cruise for two, will be awarded—



one at the end of July, the other after the contest ends on Dec. 31. Six winners will take home first prizes—a week's free motor home rental, plus \$250 toward expenses. The 10 second prize winners will receive a three-piece set of imported leather luggage.

And over 500 third place winners will receive a movie trivia book.

An Early Bird drawing will be held monthly from among those who enter the sweepstakes during that month. Early Bird winners will receive a Sony portable compact disc player.

Contestants are asked to complete a short "movie trivia" quiz, then answer questions about themselves: consumer electronics purchasing plans for the next year, household income range and other demographic information.

The information will be useful in marketing video entertainment services more effectively.

## COMSAT's Hannon Serves as Goodwill Ambassador to USSR

COMSAT World Systems' Division Vice President Jack Hannon last month took a large measure of goodwill from the U.S. and COMSAT and shared it with officials and citizens of the Soviet Union. In the process, he said he established Soviet friendships that could lead to greater cooperation and sharing in telecommunications.

Hannon, teamed with executives from Home Box Office, the Learning Channel and ALASCOM, Inc., traveled to the Soviet Union as part of United States Information Agency efforts to increase the exchange of information between the two nations.

He first traveled to Moscow, where he met with high telecommunications officials, including the Vice Chairman of Gostelradio, the radio-television service, the Director General of InterSput-

nik and the head of Soviet maritime communications. The free-ranging discussion focused on expanding communications exchange—everything from increasing channels on INTELSAT and new services on INMARSAT to sharing TV programming.

On the second leg of the trip which took him to Tbilisi in Soviet Georgia, Hannon was a featured speaker with a U.S.I.A. exhibit called "Information USA." He addressed an audience of 150, many of whom represented area technical institutes. Hannon's remarks focused on COMSAT's role in facilitating international communication and the flow of information—and the effect of satellite communications on peoples' lives around the world.

The exhibit, featuring how people in the U.S. receive, use and process

information, was designed to promote interaction among visitors and exhibit hosts, Hannon said. It gave him an opportunity to talk directly with Soviet citizens—and to answer their questions.

"What we saw was a culture starting to change, opening up to topics previously not open to discussion," he said. "We met people who will remember us and who will interact with us on future projects," he said.

Hannon said he won't soon forget the great courtesies shown to the U.S. visitors. He also won't forget the sight of a piano duet performed by two women, an American and a Russian, neither of whom could speak the other's language. For the duet, the Russian woman wore two COMSAT pins—one in each ear.

## Short Takes

The Washington Ballet is offering group discounts to its March 3-5 series at George Washington University's Lisner Auditorium and its May 5-8 performances at the Kennedy Center. Savings for groups of 20 or more can be significant. Contact Renee Youngs, The Washington Ballet, at 362-3606 for more information. . . .

Technical difficulties are delaying service over TAT-8 to France, with service now expected to begin Sept. 1, instead of July 1. . . . Capitol College at Laurel, Md., has announced that this year's \$750 COMSAT Scholarship winner is Natha Tait, a sophomore telecommunications student. . . . *COMSAT, Technical Review* has announced a call for papers. Deadline for abstracts (150-300 words) is March 31, while full papers are due May 16. Submit to Geoffrey Hyde, COMSAT Labs, Room 0209. . . . On Jan. 1, COMSAT Video Enterprises, Inc., became a wholly owned subsidiary of COMSAT. Previously, it had been conducting business as the CVE Partnership, an arrangement dating to its origins as a partnership between HI-NET Communications and COMSAT General.

. . . A January Donaldson, Lufkin & Jenrette update on COMSAT is bullish on the company's near-term performance prospects. Its \$3.40 earnings per share projection for 1988 is the highest of the analysts who regularly follow COMSAT stock. . . . The FCC tenta-

tively concluded, after evaluating future telecommunications needs for the rest of the century, that the TAT-9 fiber optic cable across the Atlantic and an unspecified number of IN-TELSAT satellites is in the public interest. . . .



### Cade Named Marketing VP For Systems Division

David J. Cade has joined the corporation as vice president, Marketing and Business Development for COMSAT Systems Division. Cade previously held new business development and marketing/sales positions with Martin Marietta and AT&T.

While at Martin Marietta, Cade was responsible for developing systems integration concepts for the federal telecommunications arena. He was

instrumental in getting the company involved as a potential prime contractor for the FTS 2000 program. He directed a marketing effort aimed at key civil government agencies and the Department of Defense. At AT&T he established a C<sup>3</sup>I (Command, Control, Communications & Intelligence) line of business for Western Electric and directed a new business development effort for AT&T Information Systems.

Prior to joining AT&T, Cade spent 22 years with the U.S. Air Force in a wide range of assignments in the C<sup>3</sup>I area.

"David's extensive background in the marketing and development of telecommunications and C<sup>3</sup>I systems and services will provide a strong impetus to our strategic thrust in these areas," said Joel Alper, president of COMSAT Systems Division.

# Maritime Services Introduces Yachtphone

COMSAT Maritime Services this month unveiled its latest product aimed at increasing use of maritime satellite communications services. This time, the target is yacht owners and their guests.

Called Yachtphone, Maritime Services' newest development makes telephoning from onboard as simple and direct as calling from on land. It was introduced this month at the Miami International Boat Show.

With Yachtphone, pleasure boaters can avoid the "cumbersome" steps normally required to place a satellite call from onboard ship, said Herman Molzahn, director of cruise and leisure markets, Maritime Services.

Typically, when someone makes a call on ship, a high-pitched tone, higher than the normal dial tone, is heard first, Molzahn explained. The caller then must key in the appropriate security code, the coast earth station number, the actual telephone number, followed by a service code and a code to indicate the end of the dialing sequence.

Yachtphone, said Molzahn, eliminates the extra steps. Instead, it produces a normal dial tone. With Yachtphone, you need only dial the area code and phone number for calls to the U.S. For calls to other countries, you need only dial 011, the country code, city code and number.

The fact that all calls made through Yachtphone go through Maritime Services' Southbury, Conn., or Santa Paula, Calif., earth stations is no accident, Molzahn said. Yachtphone is part of Maritime Services' strategy to increase use of maritime satellite communications—and to increase use of U.S. coast earth stations, owned by COMSAT.

The target market, Molzahn said, is the 450 or so mega-yachts already equipped with a Standard A earth station for maritime communications. Marketing will be from the bottom up, he said. Once it is proven on board yachts, it may be applied to the yacht/cruiser business—vessels carrying up to 125 or more passengers for hire.

Yachtphone—which is not a phone at all, but a gray box containing electronics—is highly flexible, Molzahn said. It will connect easily with any device that can be hooked into a land-based telephone jack—facsimile



machines, personal computers, cordless phones or other devices. It can support up to 15 extension phones. And, it can be programmed to track a variety of billing arrangements—ship-paid, collect, credit-card and information calls.

Yachtphone's development is credited to COMSAT's maritime applications lab, headed by Jerry Wilson, according to Molzahn. "They were able to build Yachtphone by integrating off-the-shelf products and by special programming to meet the needs of the end-user," he said.

## Coulter Named to State Panel

Bill Coulter, Vice President, Government Affairs for COMSAT World Systems, has been appointed to the State Department's Advisory Panel on International Communications. The panel, composed of prominent U.S. lawyers, serves as the State Department's private sector expert on international legal matters.



## Fitness Center Activities

On February 24 during the lunch hour, a physician will be at the Plaza Fitness Center to discuss cholesterol, diet and heart disease. The discussion is part of the American Heart Association Month activities.

A registered dietitian speaking on good nutrition will be the featured guest in March at both COMSAT Fitness Centers. March is National Nutrition Month. Dates and times will be announced.

Throughout March, regular exercise classes will continue five days a week at both Fitness Centers. Contact x5135 at Clarksburg or x6700 at the Plaza for times.

Also in March, the Fitness Centers will begin recruiting for members of a COMSAT team to participate in the June Corporate Cup. The Corporate Cup is a series of events—sprints, relays and longer runs—in which local companies compete. You do not have to be a member of the Fitness Center to be part of the COMSAT Corporate Cup team.

## News Briefs

### CVE's Special Events Seen By Thousands

COMSAT Video Enterprises reports that its first live special events—a boxing match broadcast in late October and a World Wrestling Federation extravaganza on Thanksgiving evening—were each viewed by guests in over 1,000 hotel rooms across the country. The wrestling match had a somewhat higher buy-rate than the boxing event.

A third special live event—featuring Hulk Hogan and other World Wrestling Federation stars—has been set for the evening of Sunday, March 27. Cost will be \$19.95.

The October boxing match, which cost \$20 to view, was available to guests in nearly 70 percent of CVE's hotel rooms. The wrestling event, available in 77 percent of rooms, cost \$14.95.

Broadcast of these events marked CVE's first live pay-per-view offering. Such innovative events, CVE believes, will make its in-room video entertainment service attractive to hotel guests and hotel managers. CVE's satellite delivery capability gives it a competitive edge in providing special pay-per-view events to hotels. Its main competitor delivers programming to hotels primarily via videocassette.

### SBS-1 'Maneuvered' For Super Bowl News

In the first actual commercial application of the COMSAT Maneuver, COMSAT General delivered 70 hours of pre- and post-game Super Bowl coverage for NBC via the SBS-1 satellite.

Washington, D.C. viewers who watched broadcasts by WRC anchor Jim Vance and sportscaster George Michael from San Diego before and after the Super Bowl saw programming delivered via SBS-1. The satellite is being operated using the COMSAT Maneuver, a stationkeeping technique that saves satellite fuel and, thus, extends satellite life.

### World Systems Makes Grant To Project Hope

COMSAT's World Systems Division recently continued the compa-

## Printing Notices

The following is a list of jurisdictional items generated at the Laboratories during the month of December 1987. Contact Records, x4232, if you would like a copy of any of the documents. You will be charged printing costs, and certain restrictions regarding nonjurisdictional use of the documents will apply.

M. Brown, "Ground Antenna to Follow a Satellite in an Inclined Orbit." Task No. 151-4678; Nov. 30, 1987.

R. Gupta, J. Reynolds, and P. McNally, "Passive GaAs FET Modeling for a .05-14-GHz MMIC 5-bit Digital Attenuator." Task No. 151-4696; Dec. 9, 1987.

R. Bonetti and A. Williams, "A TE Triple-Mode Filter." Task No. 171-4412; Nov. 24, 1987.

G. Hegazi, H. Hung, F. Phelleps, L. Holdeman, et al., "V-Band Monolithic Power MESFET Amplifiers." Task No. 171-4407; Dec. 2, 1987.

M. Hulley, "Study of Ion-Noise Sidebands as a Quality Control Tool for TWTs." Task No. 151-4658; November 1987.

F. Hemmati, "Reduced Complexity Decoding of Convolutional Codes." Task No. 171-4418; Nov. 3, 1987.

J. Potukuchi, R. Mott, R. Gupta, and A. Zaghloul, "Monolithic Transmit Modules for a Multibeam Ku-Band Phased Array Antenna." Task No. 151-4696; Dec. 9, 1987.

H. Hung, T. Lee, F. Phelleps, J. Bass, T. Noble, and H. Huang, "60-GHz Monolithic Low Noise Amplifiers." Task No. 171-4407; Dec. 10, 1987.

D. Paul, "High-Power Diode Lasers: Reliability Data and Test Methodology." Task Nos. 151-4673 and 171-4409; Dec. 2, 1987.

J. Reisenweber, "INTELSAT V Life Extension-Thermal Control Subsystem." Task No. 151-4678; Dec. 10, 1987.

K. Virupaksha and H. Chalmers, "Variable Program Audio Codec." Task No. 151-4709; December 1987.

G.L. Albright, "Applied Technologies Division Software Library Program Catalog." Task No. 171-4434; Dec. 22, 1987. Task No. 151-4675; Dec. 22, 1987.

C. King, "A Report on the Interactive Channel Modeling Program, December 1987." Task No. 151-4657; Dec. 30, 1987.

### WATCH THIS SPACE NEXT ISSUE FOR "PRINTED CIRCUIT."

ny's long support of Project Hope, a health education foundation working in the Caribbean, with a \$4,000 grant.

The grant will enable Project Hope to expand educational programming over a satellite teleconferencing system that now links university campuses in Jamaica, Trinidad, Grenada and other Eastern Caribbean countries. The system uses INTELSAT satellite capacity.

World Systems' contribution will help Project Hope sponsor teleconferencing programs for health care and environmental professionals on such

topics as patient care, community and home care, nutrition, food safety and waste management.

COMSAT's support of Project Hope dates back 14 years to communications experiments during the S.S. Hope's visit to Macao, Brazil.

"Project Hope's objective to provide needed medical care would be greatly diminished without private-sector contributions, such as that made by World Systems," said Tom Sadler, senior specialist, COMSAT Government Relations. "We're glad to support their effort." 