

Express

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TRW to Discuss Odyssey with Strategic Partners

TRW is beginning discussions with potential strategic partners both in the U.S. and abroad for the Odyssey satellite communications system, according to Joe Gorman, TRW Inc. chairman and chief executive officer. Gorman made the announcement during a presentation to the Cleveland Society of Security Analysts.

"We will be working with potential strategic partners in developing a business plan that meets our mutual business objectives," Gorman says. "We are seeking partners both

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GRO Honored by Popular Mechanics/Discover Magazine

The TRW-built Compton Gamma Ray Observatory (GRO), said to be "rewriting the science books," makes two more entries in TRW history books this month. One of the company's most honored programs, GRO has received the Popular Mechanics 1993 Design & Engineering Award for Science and Technology and Discover Magazine's 1992 Discover Award for Technological Innovation in the aviation and aerospace category.

"We've had a dream mission so far," says NASA's Neil Gehrels, honored by Discover Magazine along with TRW's Jerry Glikzman. Since its launch from the Space Shuttle Atlantis on April 5, 1991, GRO has detected hundreds of gamma ray disturbances. Notably, it discovered a quasar that is spewing out millions of times the energy of the Milky Way Galaxy and recorded three

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Coming January 1 Get Your News From the Group: Employee Communications Take New Form

With a new year comes generally change. That's certainly the case for employee communications, which will undergo a number of important changes January 1.

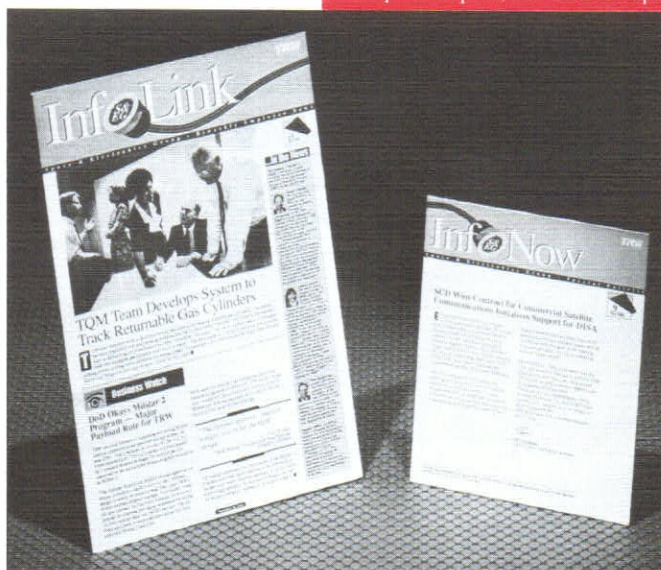
Beginning next year, Sentinel and Sentinel Express will be discontinued. Instead, employee communications will be developed by individual Groups and distributed to employees of those Groups. Employees in A&SG will receive information about their organization through ASG Special Reports and the MEADIA report; ESL employees will continue to receive ESL In Brief. SIG employees can get timely information about their Group through The Spectrum and Spectrum Special Reports. The publications for S&EG will be S&EG InfoLink and S&EG InfoNow, which will replace the



The Spectrum and Spectrum Special Reports



ASG Special Reports, the MEADIA report and ESL In Brief



S&EG InfoLink and S&EG InfoNow

current Sentinel Express, Sentinel Special Bulletins and First Source.

"The decision to eliminate Sector-level publications is consistent with the restructure and with our efforts to de-centralize the organization," says Jim Jordan, S&EG director of Internal Communications.

Also as result of the restructure, Quest will be eliminated beginning January 1. ♦

Fill out, Sign, Send Stock Savings Plan Forms Due December 18

By now, all participants in the TRW Employee Stock Ownership and Stock Savings Plan (SSP) should have received information on Plan enhancements for 1993 and a Participant Service Center Authorization/Beneficiary Designation form. Benefits Administration will no longer handle the administration of SSP. Instead, starting January 4, 1993, all transactions will be performed by phone through the TRW Participant Service Center. To be able to make changes to your account and use the new features offered through the Plan on January 4, participants must complete, sign and return this form to TRW SSP office, P.O. Box 248000, Cleveland, Ohio, 44124-9884 by December 18. Your signature authorizes the Service Center to process transactions, which include contribution percentage changes, fund transfers or loans, by phone. Although an SSP participant can obtain information about his or her account from the Service Center, the participant will be unable to make account changes without a signature on file.

With no beneficiary designation on file, or without having your surviving spouse's written consent to another beneficiary, the Plan will automatically pay, at your death, your entire account balance, to your surviving spouse or, if none, to your estate.

The enhanced Plan offers additional investment options and new transaction capabilities and will process transaction requests more quickly. The service center makes transactions easy. Employees can call the Service Center to use all of its features using a touch-tone telephone and a Personal Identification Number (PIN). Participants who can't locate their PIN number should call 1.800.859.4567. ❖

Fast Facts

▲ TRW Inc. announced it has elected to redeem the remaining \$7.5 million principal amount of its 8-1/8 percent debentures due 2004 from holders of the debentures. The redemption will take place January 15, 1993 at the price of 100 percent of the principal amount of the debentures together with accrued interest. The debentures were issued in January 1974.

▲ A video celebrating the contributions and achievements of TRW's space and defense businesses will be available for viewing December 18. Developed for the 1992 management conference, "Decade of Achievement" pays tribute the men and women who created the company's success over the last ten years. Space & Electronics Group employees can view the 12-minute video by contacting the Media Center, 310.812.1868. Employees at Avionics & Surveillance Group sites should contact their technical libraries. Systems and Integration Group (SIG) employees should call Joann Worrell or Carol Jeffords at the SIG Group Training Resource Library, 703.803.5125.



... GRO Honored

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monster quasars on the fringe of the universe — between 7 and 25 billion light years from Earth.

"We couldn't be happier with the GRO program," says Ed Nowacki, vice president and general manager of Federal Systems Division. "We met our major goals — satisfying our customer in terms of program performance and in the scientific value of the spacecraft." The customer obviously agrees. NASA Goddard Space Flight Center honored TRW with the NASA Public Service Group Achievement Award in March.

Popular Mechanics tasked its editors to identify the most "innovative, creative, unique and significant" products and innovations to cross their desks in 1992. GRO met that description and received the 1993 Popular Mechanics Design and Engineering Award.

The Discover Award specifically honored Gliksman, GRO program manager from 1985 through 1988 and now TDRSS program manager, and Gehrels, GRO project scientist for NASA Goddard Space Flight Center, for their innovative design solutions. The observatory, which weighs over 17 tons, is the heaviest unmanned spacecraft ever lofted by the Space Shuttle.

"We designed the structure to act as a shock absorber thereby helping to separate the big instruments from the huge forces of shuttle liftoff," Gliksman says.

Discover will present the award to Gliksman and Gehrels Friday, December 18, at a forum titled, "Pulsars, Quasars and Bursts: Discoveries by the Compton Gamma Ray Observatory". The forum is scheduled from noon to 1 p.m. in the E2 Presentation Room. ❖



Illustration by Michael Cohen

Holiday Shutdown Starts December 25

The long-awaited holiday shutdown has mercifully almost arrived, and with it, comes plans of rest and relaxation, holiday sales and home repairs. Friday, December 25, through Sunday, January 3, marks the 13th annual shutdown. Monday, January 4, is a regular work day. Look for more details in an upcoming bulletin. ❖

... Odyssey

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in the United States and abroad to participate in the development and advancement of this promising venture."

Odyssey is a satellite-based communications system that will provide voice, data, paging and messaging to mobile subscribers worldwide. Total cost for the 12-satellite system is estimated to be \$1.3 billion. TRW filed with the Federal Communications Commission (FCC) in May, 1991, for permission to build the satellite system. FCC approval is necessary before any satellite can be built that would transmit to or from users in the U.S.

"We foresee a large market for personal communications," said Gorman. "A fully operational Odyssey system would accommodate more than three million users worldwide and capacity could readily be doubled if demand is sufficient." ❖

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