

DATA SYSTEMS TODAY

May 28, 1999

Yair Alon and Lance Munemura Receive Corporate Technology Awards

Data Systems' employees Yair Alon and Lance Munemura were recognized for their development efforts with prestigious Corporate Technology Awards at the 1999 Litton Industries' Corporate Advanced Engineering Symposium (CAES) held at the Ritz-Carlton Pentagon City, Washington D.C. in late May.

Lance and Yair received an Advanced Product Development Award for their work on the High Performance Multi-Radar Tracker developed for the R/SAOC program. This product represents a significant step forward in high performance surveillance and control technology by providing the capability to monitor the entire North American perimeter at one centralized location through an integrated single, real-time air picture derived from simultaneous interface with more than 100 radars. Hosted on a COTS (commercial



Yair Alon



Lance J. Munemura

off-the-shelf) platform, it not only eliminates the need for costly custom hardware, but will also lower development costs for future customers by virtue of its reusability. Tomorrow's more powerful CPUs and additional memory in COTS hardware will take the tracker's capabilities well beyond the 100-radar threshold.

This technology puts Litton at the forefront of high performance radar tracking. Because the software is written in object-oriented C++ language, it is easily portable across a variety of hardware and software platforms.

The Tracker advances a Division product line of very long standing that includes such products as the Radar Beacon Digitizer deployed with the U.S. Customs Service, the Advanced Tracking Systems deployed with the U.S. Navy, the Air Force/Marine Corps AN/TYO-23 integrated tracker (the MCE Interface Group) and the Modern Tracking System deployed with the Air National Guard and C2M programs. A potential market exists with these legacy systems in which the High

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Data Systems Ocean Springs Wins Third Quality Award

Representatives from Litton Data Systems Ocean Springs' facility proudly took the stage on Friday, April 9, to receive their third consecutive Quality Award for Excellence at the Excellence in Mississippi Conference. The annual conference, sponsored by Governor Kirk Fordice, was held on the Mississippi Gulf Coast at the newly opened Beau Rivage Resort in Biloxi.

The Mississippi Quality Award, based on the same criteria that exists at the national level for the Malcolm Baldrige Quality Award, is given to deserving organizations at one of four levels. Data Systems Ocean Springs received the award for Quality Commit-

ment in 1995 and the Excellence Award in 1996 and 1997.

Excellence in Mississippi, Inc., is a non-profit organization founded 14 years ago by a group of quality professionals to improve the understanding and acceptance of quality principles by Mississippi organizations and to serve as a forum for the exchange of information to facilitate improvement of the quality of Mississippi organizations. Through the years, participation in the conference has greatly increased, and it continues to gain respect as Mississippi's premier quality management training opportunity.

One of the highlights of the confer-

ence was an executive panel on "World Class" Customer/Supplier Partnerships moderated by Dr. Harry Hertz, the Director of the Malcolm Baldrige National Quality Award. The panel featured senior executives from Ingalls Shipbuilding, the Navy, Oreck Manufacturing and Ametek/Lamb Electric in a discussion about the ways in which customer/supplier partnerships are created and improved, the challenges they face, the obstacles that must be overcome and the mutual benefits that can result. Data Systems did not conduct any workshops at this year's conference, but employee Larry Bloodsworth served all

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CINC NORAD Visits R/SAOC Program

General Richard B. Myers, Commander in Chief of North American Air Defense, visited Data Systems on 24 March and liked what he saw. Accompanied by Brigadier General Paul Nielsen, NORAD J-5, General Myers received a preliminary briefing in the presentation center, after which he got down to brass tacks in the R/SAOC lab in Building 2, where he learned a lot about the system. And, judging by the photo below, he (and everybody else) enjoyed it. The R/SAOC program, directed by Paul Chandler, is modernizing North American Region and Sector Air Operations Centers that are under General Myers's command.



Magali Leal (seated, left) successfully demonstrates some of the R/SAOC system's finer points for General Richard B. Myers (seated, right) during the CINC NORAD's visit to Data Systems. Other well-wishers look on.

Litton Data Systems Enters Navy BMC3 Arena with New AADC Contract

Naval Sea Systems Command has awarded a firm-fixed-price contract to the Litton Data Systems/Computer Sciences Corporation (CSC) team for delivery of Short Term Concept Studies Relating to an Area Air Defense Commander (AADC) Capability. The nearly \$1 million contract's period of performance runs from 27 April 1999 through 27 October 1999.

Data Systems President Chris Bernhardt congratulated the AADC capture team for its fine work, saying, "We

are extremely pleased to have this opportunity to apply Data Systems' legacy command and control expertise to a new product for a new customer. This new AADC program provides the Litton/CSC team with the opportunity to become the Navy's BMC4I team for the 21st century."

The Area Air Defense Commander is a command and control system element for executing the Area and Navy Theater Wide Ballistic Missile Defense. The program has a potential value of

\$50 million in the Engineering Manufacturing Development (EMD) phase and \$250 million for full-scale production. Data Systems will apply its air and missile defense skills to provide the automated force planning and tactical operations capabilities that will enable Navy commanders to plan, monitor and execute assigned warfighting functions. CSC brings its Aegis combat system integration expertise to the effort. □

San Diego Celebrates "Bring Your Child To Work" Day



On Thursday, April 22, eighty-three very special guests visited the Data Systems - San Diego facility in observance of "Bring Your Child to Work" Day. Various departments highlighted their areas of expertise and assisted in coordinating interactive activities. Lou Kelly, Vice President and General Man-

ager, provided milk and cookies to any adult accompanied by a child.

The sons and daughters of DSD-San Diego employees were given Children's Day badges and escorted around the building to view a variety of demonstrations. A medley of fun, interactive demos were provided by the Vibration Test Lab, Conformal Coating Room, Night Vision in the Engineering Lab and Computerized 3-D by Hardware Design, and tours of the Demo Room and IS department were conducted.

A San Diego Sheriff's patrol car and an Army Palletized Loading System (PLS) vehicle were also on site to showcase our installed products. The Marketing Department provided guided tours of the computer and display products while Human Resources created Children's Day employment applications and offered career counseling for those embarking into the summer job market. The Shipping Department allowed each child to decorate a box with their picture inside, pack it and ship it

home! Even the cafeteria staff got into the spirit of the day and prepared a special Children's Day menu, which was enjoyed by adults as well.

A special thank you goes out to the following individuals for making the day a success:

Scott Angeli, Judy Annala, Tom Clift, Jerry Clymer, Richard Foncannon, Marc Goyette, Linda Haque, Eddie Hariman, Tamara Harpster, Dick Henry, Howard Kagiya, Jim Martins, Patty Moore, Hernan Olivas, Mike Orr, Sherry Perkins, Nate Talauega, Ed Thibault, Gary Varga and Steve Vayo. □



DSD Personnel Featured Speakers at National Defense Industrial Association (NDIA) Logistics Symposium

Rick Williams, ILS, DSD Moorpark and Dave Long, Engineering, DSD San Diego were featured speakers at the Michigan chapter of the National Defense Industrial Association (NDIA) Logistics Symposium held in Troy, Michigan from April 27 through 29. This TACOM/NDIA co-sponsored event presented a rare opportunity to discuss and demonstrate to a majority of the TACOM (Tank Automotive Command) Program Management and Organizational Equipment Management (OEM) personnel the many benefits which are derived from linking these two technologies together.

Rick presented a detailed briefing and demonstration of the DSDMP-developed "Embedded Diagnostics Training" (a.k.a. MediaTrace™ Point-to-Point Wiring & Signal Tracing) program which the U.S. Army TACOM has

recently adopted as its standard for training and deciphering complex and often multi-page, electrical, hydraulic and pneumatic schematics. The program is already under contract with one major vehicle program and at least eight others are considering its employment. Rick is also scheduled to speak on this subject for the prestigious audience at the Government/Industry Supportability Engineering Exchange (GISEE) 12th Annual Symposium in Huntsville, Alabama, June 16 - 18. Mr. Louis Kratz, Assistant Deputy Undersecretary of Defense for Logistics, is the keynote speaker.

Dave presented a technical briefing on the authoring techniques associated with the development of the DSDSD Class 5 Intrusive Diagnostic Electronic Maintenance System (EMS-2) with Interactive Electronic Technical Manual

(IETM). EMS-2 is a joint DSD/TACOM sponsored program which is already realizing success with ten major Army vehicle programs, and is being considered as an integral part of the Movement Tracking System (MTS) that will feature *Telemaintenance* concepts for the XXI century battlefield. EMS-2 is also being offered to other DoD and commercial programs.

Both of these featured presentations were well received by the over 300 registered participants in attendance.

For those who were unable to attend the presentations, DSD also had a booth set up where Rick, Dave, Norma Wolf, Joe Radford and Jaime Olivas demonstrated all of our Combat Support Services programs, including Automated Data Conversion, MediaLynk™ Class 3 IETM and Computer-Based Interactive Training System (CBITS). □

Litton Seeks Newport News and Avondale Acquisitions

In what industry analysts are calling a bold move for the normally conservative company, Litton Industries, Inc. announced it will pursue the acquisitions of Newport News Shipbuilding and Avondale Industries, two major suppliers of ships to the U.S. Navy, in separate transactions with a total value of \$2.4 billion, including assumption of debt.

Litton is seeking a stock-for-stock merger with Newport News that would be valued at \$35.61 per share for the Virginia company's stock. Litton would acquire Avondale of New Orleans for \$38 per share in cash. Neither offer depends upon the acceptance of the other.

The resulting combination of Ingalls Shipbuilding, Newport News and Avondale would create a worldwide leader in the shipbuilding industry and a full-service contractor able to meet all of the Navy's shipbuilding needs.

Litton has engaged in preliminary discussions of its plans with the Department of Defense.

A successful deal would make Litton the No. 5 defense contractor, up from its current eighth ranking. □

Quality

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ICARE Recognition for Three in Ocean Springs

Efforts above and beyond normal expectations brought ICARE honors to one team and one individual at the Ocean Springs facility.



March's ICARE Award was given

to Valerie Brune for her development of the DDG 51 Interactive Courseware program schedule using the new ERP scheduling software, OPENPLAN. Valerie met all the program requirements on a timely basis and developed reports and graphics which focus attention on timely deliveries.



Bill Hill and Ernie Pettis of the BaaN

implementation team were recognized at February's award ceremony for their efforts in support of BaaN training. With very little notice, they worked tirelessly to prepare the classroom and set up all the necessary computer equipment to ensure that classes would proceed as scheduled. □



Representing Data Systems and receiving the award were: (l-r) Roger St. Pierre, Richard Schmidt,

Vice President and General Manager David Johnson, Doug Otto, Governor Kirk Fordice, Trey Endt, Larry Bloodworth, Bob Wilensky, Patti Moore and Cathy Davis. Each winning organization was also presented with a small magnolia tree to be planted at their facility as a special reminder of the importance of Quality in business.

year as Program Co-Chair on the Conference Core Committee.

Data Systems Ocean Springs will continue its "Quality Journey" with sustained efforts towards increased capabilities and a strong competitive position in Maritime Systems and other markets. □

Litton Newsbriefs

Microsoft Certifies LES as Service Provider

Litton Enterprises Solutions (LES) has been accepted as a member of the Microsoft Certified Solutions Provider program. With this distinction, LES can offer services based on the Microsoft enterprise platform, with emphasis on systems design and integration, enterprise resource planning implementation, client-server application development and desktop management. According to a Microsoft spokesman, LES was chosen because of its "documented expertise" in the company's products and methodologies.

PRC Selected by GSA for Worldwide Federal Technology Contract

PRC is one of 10 vendors selected by the General Services Administration (GSA) to be a primary source of information technology services to federal customers throughout the world. The program has a total potential value of \$25 billion over a 10-year period and a total potential value to Litton of more than \$500 million. Services to be provided by PRC include network administration, database administration and management, disaster recovery, systems integration and year-2000 solutions.

TASC Awarded Classified Contract

A contract worth more than \$100 million from a classified U.S. government customer has been awarded to TASC. The three-year base agreement with two one-year options authorizes TASC to continue providing systems engineering and operational support to the customer, whom TASC has supported since the 1970s. This award represents major follow-on work to one of TASC's longest-running contracts. □



Technology Awards

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Performance Multi-Radar Tracker could provide a very affordable upgrade path. New markets also exist wherever systems depend on large networks of surveillance radars to create an integrated air picture, such as anti-drug trafficking enforcement and air traffic control.

Yair also received an Advanced Technology Innovation Award for his development of the R/SAOC Registration Algorithm, which provides the mechanism to register all radar sensors in the net to true North and the correct range and enables the High Performance Multi-Radar Tracker to perform more accurately.

Registration problems date back almost two decades to the time that integrated tracking was introduced. Yair devised an innovative mathematical solution that utilizes radar target tracks in place of plot data, operates in natural ECEF (*earth centered earth fixed*) coordinates as opposed to flat earth and provides the fast response time required for the registration calculation.

Proper registration of radar data is crucial to the successful implementation of a multi-sensor, multi-tracker system. Under the old method, a single target being reported by several radars at different positions could appear as parallel multiple reports on the radar screen and be erroneously identified as targets flying in formation or raids. This new technology employs track data, which is more reliable than plot data because it uses velocity and time in addition to position and reduces potential errors because it propagates all data points to a common time. It can utilize all the available track data as opposed to the old algorithm that required 30 to 200 target pairs (two reports of the same target by different radars) to be evenly distributed on both sides of the plot line connecting the radars and could only calculate a single registration value when enough pairs with the proper distribution were recorded. In addition, while the older tech-

nology excluded sensors with no beacon data or sensors whose beacon had failed, the R/SAOC registration algorithm allows for the use of either primary (search) or secondary (beacon) radar data or both in its calculation.

This new state-of-the-art algorithm provides the Division with the ability to commit confidently to providing adequate registration in all operational scenarios. It was instrumental in maintaining the Division's technological reputation in both the R/SAOC and UKTACC programs, where it is a standard function, and it will be a key factor in future multi-sensor tracking programs.

These awards characterize the ongoing excellence of the contributions that Yair and Lance have made to Data Systems. Yair, who joined Data Systems in 1993, utilized his wealth of experience in radar and signal processing systems on the Vector Neural Network (VNN) IRAD program where he was part of the shore defense demonstration that verified the shore-based radar detection capability of the VNN technique. As a part of the ASTA program, he was also responsible for the analysis and simulation of the bi-static ASTA system. Both of these achievements earned him the 1995 Litton Advanced Technology Award.

Since joining Litton in 1984, Lance has been involved with Litton-developed command, control and communications programs for such systems as AN/TSQ-73 "Missile Minder" and AN/TYQ-23 tactical air operations, specializing in the development of tracking and tactical data communications software. He was awarded the 1993 Division Outstanding Employee Award for his efforts in resolving the critical "track jump" program as a key member of the Saudi C3 contract closure team. □

In the Spotlight



Last month's mystery employee should have probably known he was destined to be a software engineer. Warren Wegerer, Senior Engineering Specialist, says his interest in how invisible things work began with the radio. Even as a small child, he says, it was magical to realize that, with that little 'box,' he could hear broadcasts from all over the world. His fascination led him to figure out how all those wires went together to make it work; he became interested in ham radio and currently holds the highest class of license for an amateur radio operator.

Warren began his association with Data Systems as a subcontractor while working for Sperry Univac designing software on the TAOM MCE IPS (In-Plant Simulator). That experience, coupled with his work on the SIM subprogram, afforded him exposure here and, in 1985, he was offered a position as a Principal Engineer tasked with performing software design, development and integration tasks associated with the addition of JTIDS (Joint Tactical Information Distribution System) to the TAOC-85 and MCE systems. He was the principal interface and designer of the IPS/EJSE (Enhanced JTIDS System Exerciser) function of the P31 project and was involved in the design, development and administration of the TREBOL Information System (a Venezuelan program). Warren is currently assigned to the UKTACC program where he most recently has been performing detailed software design, coding and integration testing for the system's Link 1 Transmit component. His goal for the future is to move into positions of more responsibility in the technical leadership realm.

He says a software engineer needs to be analytical, logical and persistent. "Software is the greatest puzzle. It has an unlimited number of parts, and if one piece isn't right, the puzzle doesn't fit together correctly. It's like building a bridge. If you leave out one girder, the

bridge won't stand."

Warren is especially proud of his efforts on the addition of JTIDS to TAOM for the Air Force. Before the operational testing could be done, a simulator needed to be developed. Leading a team of Data Systems employees and subcontractors, he had to teach COMM (digital and tactical data links), review enormous stacks of technical documents and determine the processes of the simulator based on the philosophy of IPS automated processes. It was an intense and difficult assignment, but one that brought a great deal of satisfaction when it was successfully completed. He is also proud of his work in solving operational difficulties that surfaced during the Eglin Air Force Base trials on TYO-23.

Warren, a second-generation native Californian, grew up in La Crescenta, where he attended Crescenta Valley High School. He was active in many school activities, including the honor society, key club and math club. Following high school, he went to Cal State Northridge. Although Warren had completed three years of training for the ministry before beginning college, he was still unsure about where his future lay. Deciding to take some time off from school, he secured a position at JPL. That experience crystallized his career path. Realizing that engineering was definitely in his future, he continued to work full time at JPL while he attended Glendale College and then Cal Poly Pomona, graduating cum laude with a bachelor's degree in electronic engineering. His first position following college was at Sperry Univac. He then spent a brief and not particularly fulfilling period in the commercial arena at Terminal Data Corporation before joining Data Systems. Working at Data Systems, he says, has been a very satisfying experience. It has afforded him stable employment

at a company with an established reputation, challenging work, a large degree of independence and some very nice benefits.

One of those benefits of which Warren most certainly takes full advantage is the Employees Recreation Association. He has served as a member of the ERA executive board, and currently belongs to the Dance Club, the Gun Club and is vice president of the Radio Club.

In addition to these activities, he enjoys country western and West Coast swing dancing, likes to go camping and

hiking and has been to all the national parks in the Western United States at least once. His favorite vacations involve traveling by car and planning his route to stay off the beaten path whenever possible. He has amassed quite a rock collection by virtue of his interest in geology, and he is also a gun collector particularly interested in the firearms of the Old



West. His engineer's curiosity leads him to buy the firearms so he can take them apart to see how they work.

Other leisure time pursuits include playing the piano and reading. He reads everything, from science fiction to metaphysical works to "every Louis L'Amour book ever written."

Warren recently relocated from Tujunga to his new home on the lake in Westlake where he enjoys packing up the chips and salsa and taking his boat out for a spin.

Warren thinks his co-workers would describe him as logical, hard working and quiet, with a sense of humor. He admits he sometimes gets so wrapped up in his work that people stop by his office just to make sure he still works here!

Congratulations to Kathy DeSimone, Bob Kemmerer, Magali Leal and Julie Sheerin for correctly identifying Warren.

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Milestones

Congratulations to the following employees who celebrated their anniversaries during the month of May. Employees with 20, 25, 30 and 35 years of service are invited to be pictured here.



Arnold Goldstein

35 years, Member Senior Technical Staff, Engineering.



Joan Nakamura

20 years, Executive Secretary II, San Diego.

25 years: Walter Rietow

20 years: Peter Weerts.

15 years: Matt Hallett, Chris Harris, Tim Iacono, Hai Koo, Richard Richins, Carla Welborn

10 years: Debbie Hickman, Anthony McCarthy, Don Winans

5 years: Max Guidoboni, Rosemary Kubilus □

STANDARDS OF CONDUCT: ANTITRUST LAWS

This month's article is on "Antitrust Laws" and how they relate to you as a Litton Data Systems Employee.

The U.S. Government learned long ago that attempts to restrain trade or monopolize any part of trade or commerce could result in increased prices, decreased production and the elimination of competition. In order to deter these types of business practices, the U.S. Government began enacting statutes which are now collectively referred to as "antitrust laws."

Antitrust laws prohibit: (1) any attempt to "conspire to monopolize any part of a trade or commerce;" (2) "tying" arrangement with customers; (3) price fixing; and a variety of other actions which suppress competition

A company is said to be monopolistic when it possesses exclusive control of a commodity or service in a given market. This type of control makes possible the setting of price levels and virtually eliminates free competition. A tying arrangement occurs when the sale of one product is conditioned on the purchase of another. Sellers are prohibited from conditioning the sale of a product upon the buyer's agreement to either (a) purchase other products from the seller or (b) refuse to deal with the seller's competitors

In order to ensure compliance with antitrust laws, Data Systems' employees must avoid exchanging information with competitors on price cuts, price increases, allowances, costs, terms and

conditions of sale, etc. Additional actions which must be avoided include exchanging pricing methods or formulas and calling competitors to verify past or current price bids or quotations to customers.

Violation of the antitrust laws carries severe penalties. Individuals who are convicted for violating these laws can be imprisoned for up to three years and receive a \$100,000 fine; corporations can be fined up to \$1,000,000. Private companies and individuals may also file lawsuits to recover damages which resulted from perceived violations. This action is independent of any Government action

An antitrust suit is a serious matter. It is Litton's policy, and has been since the company was founded, to comply with the antitrust laws and conduct business in such a way as to avoid potential antitrust activities. Responsibility for compliance with the antitrust laws rests with each employee

Employees are required to report any perceived violation of this Standard to Division management. The Hotline may also be used to report a perceived violation. The Hotline numbers are: Agoura Hills, CA (818) 706-4669; other CA 1-800-843-5165 (toll free); outside CA 1-800-237-0934 (toll free)

Employees may call these numbers without concern of retaliation. Additional information regarding antitrust laws can be found in DSP 1000. □

Promotions

Congratulations go to the following employees

DSD San Diego: Teresa Alonzo to Senior Accountant. Christine Lee to Senior Human Resources Assistant. Emilie Yuvienco to Human Resources Representative. □

On Board

Data Systems welcomes the following new employees

DSD San Diego: Thomas Clift, Robert Eliasoff, John Estrada, Philip Michaels, Christopher Purdom □

Hotline

Employees may call the Division "Hotline" with any questions or comments or perceived noncompliance with the "Standards of Conduct."

Moorpark/
Agoura Hills.....818-706-4669
Other Ca 1-800-843-5165
Outside Ca 1-800-237-0934 □

Bargainmart

Employees and retirees of Data Systems may use this column free of charge. Ads are limited to one per person each edition and may be extended to another upon request.

Ads must be fewer than 25 words and will include home phone numbers only (except Rideshare). Ads not meeting these requirements will not be published nor will they be returned. Send ads to Employee Services at M/S 15-22

Deadline for the next issue June 4.

OTHER

LOWEST LONG DISTANCE CALLING EVER! 4 9¢/min between 100 major metro areas or 6.9¢/min within 48 states. 24 hrs /7 days/week for any phone! Call (818) 466-2440. □

Personals

Notes of thanks were received from:

Jan and Frank Tullis to all of their Litton friends who sent flowers, cards, e-mails and other expressions of concern during Jan's recent hospitalization. □

ETC Notes

Gift Certificate Drawing

Tina McCarty was the winner of the \$100.00 J.C. Penney gift certificate in March's drawing.

AVR Commuter Survey Results

During the week of March 22, 1999, Data Systems' Agoura Hills and Moorpark employees completed AVR/Transportation Survey forms indicating their work commute travel patterns during the week. This annual survey helps update the employee transportation data base used for reporting requirements under the South Coast Air Quality Management District's (SCAQMD) Rule 2202 and Ventura County's Air Pollution Control District's (VCAPCD) Rule 211. Both regulations govern the Division's program aimed at reducing the number of employee vehicle trips being made during peak commuting periods.

Results from this year's survey show Data Systems' ridesharing levels decreased in both locations from 1.14 to 1.08 in Agoura and from 1.19 to 1.09 in Moorpark. Both fall short of the goals of 1.5 set by the SCAQMD and 1.35 set by the VCAPCD.

Thanks to everyone who helped the Division in its efforts to achieve compliance by participating in this year's survey □

Spotlight

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Our next mystery employee joined Data Systems in 1994. He believes in recognizing people for their extra efforts. He has been known to refer to himself as Mr. Mom and he recently became a grandfather. He loves youth sports. Do you know who he is?

Please submit all entries to Data Systems Today Spotlight Contest at M/S 15-22 by June 4, 1999. Include your name, employee number, location and extension. A total of ten winners will be chosen at random from all correct entries. Winners will each receive a pair of movie tickets to an Edwards, General, Pacific, AMC, Mann or United Artist theater. All current Data Systems' employees are eligible to participate □

Gone Fishin'

Data Systems salutes its retirees on their years of service and wishes them success in the years ahead.

James Brown

Dave Mook □

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TODAY

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