

DATA SYSTEMS TODAY

July 31, 1996

Data Systems' Team Receives 1996 Technology Award



(Left to right) Ronald Watkins, Brian Simon, Phillip Dennis, John Armenian, John Fagarasan, Mengyen Yin and Jarrell Collier were part of the THAAD Algorithm team honored at this year's Litton Industries Corporate Advanced Engineering Symposium. Their efforts have provided Litton with a key competitive edge.

The THAAD Algorithm team was presented with a prestigious Advanced Technology Achievement Award during this year's ceremony on June 6, 1996 in San Francisco, California.

The technology awards are given each year at the company's annual Corporate Advanced Engineering Symposium. These awards are one way in which Litton recognizes employees whose creative achievements make it possible for the company to provide customers with innovative products and services, and maintain our competitive edge.

Honorees are chosen by a Litton committee consisting of representatives who manage technology and specialize in intellectual property. The selections are made based upon the uniqueness of each contribution and its potential to expand the company's competitive position in new or existing markets. Each award winner receives

an honorarium ranging from \$2,000 to \$5,000 and a special plaque.

The THAAD Algorithm team, led by John Armenian, included Jarrell Collier, Phillip Dennis, Dr. John Fagarasan, Brian Simon, Wade Talbert, Alfred Van Lennep, Ronald Watkins and Mengyen Yin.

Algorithms are of critical strategic importance to the success of any company in the system development and integration business. The team's development of over 200 high-performance algorithms and a unique prototyping facility that allows thorough testing before incorporation into a system build has provided Litton with a key competitive advantage. This effort required taking a body of scattered scientific results in many technical disciplines, adding original work and engineering the combination into a practical set of solutions to satisfy the customer's Battle Management and

Defense Planning needs. The initial portion of this program generated over \$100 million in business, and the follow-on should result in significant future revenues.

This is the first time a large, algorithmically complex C3 system has been modeled, prototyped and simulated prior to implementation and used for algorithm refinement and enhancements. The development of this technology base that goes beyond the specific THAAD implementation enables the division to pursue related, cutting edge air defense initiatives. The simulation testbed can be marketed as a state of the art BM/C3I analysis tool, but more importantly, it can be used to provide timely quantitative results to proposals for future business.

Receiving Honorable Mention were John Tracy for *Re-Engineering C3*

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Data-to-Day

Omnibus Contract Milestones

This nearly \$10 million sole-source contract for the U.S. Marine Corps, awarded to Litton Data Systems in March of 1996, is designing and developing a sophisticated, commercial workstation that will replace the Operator Console Unit originally built under the AN/TYQ-23 Tactical Air Operations Module (TAOM) program and now deployed with the USMC worldwide. This present significant upgrade includes rapid prototyping, software development, production, and licensing activities. In late June, the TYQ-23 program office successfully conducted a Preliminary Design Review and its first In-Process Review with the Omnibus customer. This program has significant future potential and is scheduled to provide evolutionary follow-on upgrades for the TYQ-23 product line. It will eventually result in the modernization and migration of both the U.S. Marine Corps and U.S. Air Force TAOM equipment to open-architecture systems that utilize common commercial-off-the-shelf and government-off-the-shelf hardware and software and operate in what is known as a Defense Information Infrastructure Common Operating Environment.

Modern Tracking System (MTS) Deliveries

In a late-1995 competitive award for nearly \$1.5 million, the U.S. Air Force ordered six MTS units for Air National Guard squadrons. These systems are now complete. The first production unit has been "sold off" and shipped to the field for installation, and the remaining five are scheduled for delivery to the Air National Guard by the end of August. The MTS, the newest member of Litton's radar tracker family, represents the very latest in hardware and software technology, combining the proven field performance of our AN/GYQ-51 Advanced Tracking System and our AN/TYQ-23 MCE Interface Group with modern commercial processors and operating systems. The MTS is the third generation of a very successful product line that began with the Radar Beacon Digitizer (RBD), developed and

fielded in the early 1980s, and continued with the Advanced Tracking System, which is now deployed with both the USAF and the U.S. Customs Service for drug interdiction activity in the southeastern U.S. and in the Caribbean. Designed for virtually unlimited future growth, the MTS exemplifies Litton's commitment to product line modernization.

Handheld Terminal/Dismounted Soldier System Unit (HTU/DSSU) Deliveries

To support the U.S. Army's Task Force XXI field exercises that began in June and will run until next March, we successfully completed all qualification testing and shipped a total of 45 HTU/DSSUs to Ft. Hood, Ft. Lewis and TRW (the prime contractor) in mid-July. The HTU, which is unique in its high-noon-to-midnight display visibility, is the Army's general purpose tactical C2 computer, and thousands of them will eventually be provided for both vehicles and dismounted soldiers in the Army's long-range, high-priority digitization effort.

Phase I Awarded in Navy's Arsenal Ship Program

A \$1 million design concept contract has been awarded to a nationwide industry team that includes Ingalls Ship-

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Litton news briefs

Litton Awarded Aegis Destroyer Contract and Option Worth Almost \$1 Billion

Litton's Ingalls Shipbuilding division, Pascagoula, Mississippi, has been awarded a U.S. Navy shipbuilding contract and option valued at nearly \$1 billion. Ingalls received a \$329.5 million contract from the government's current fiscal year funding for construction of the 15th Ingalls-built DDG-51 class Aegis guided missile destroyer. The contract includes an option for two additional Aegis destroyers to be ordered by the Navy following Congressional authorization and appropriation in fiscal year 1997, which begins October 1.

Litton Awarded \$22.3 Million To Produce Aircraft Interrogator Sets

Litton's Guidance & Control Systems division has been awarded a \$22.3 million contract by the U.S. Army to produce several hundred interrogator sets for identification of aircraft as friend or foe. The lightweight, ground-based units, ordinarily deployed with front line combat troops, are slated for delivery to Japan, Greece, France, Portugal, Netherlands and Italy under the U.S. Department of Defense foreign military sales program. Production of the equipment, called AN/PPX-3B IFF Interrogator Sets, will be carried out at the division's Northridge facility. □

Holiday Schedule

The following are the remaining holidays in 1996:

Monday, September 2, 1996	Labor Day
Thursday, November 28, 1996	Thanksgiving Day
Friday, November 29, 1996	The day after Thanksgiving
Tuesday, December 24, 1996	1/2 day before Christmas
Wednesday, December 25, 1996	Christmas
Tuesday, December 31, 1996	1/2 day before New Year's
Wednesday, January 1, 1997	New Year's Day

Details concerning the year-end shutdown schedule will be published in the October issue of Data Systems Today. □

ICARE Program Continues To Recognize Excellence



June's ICARE Award winners

(l. to r.) Elsie Becica, Tom Mueller, Alice Prather, Andy Smits, Brad Barker and Don Barteld were recognized for their outstanding achievements by Vice President of Engineering Dick George (far right).

Four individuals and one team representing two individuals were honored during June's ICARE Award Ceremony for their demonstration of outstanding performance in achieving customer satisfaction. Vice President of Engineering Dick George presented awards to the following.

The team of **Don Barteld** and **Andy Smits** was nominated by Rick Johnson for the support they have provided to the ILS Technical Publications Department since February 1996. Their expertise in UNIX and INTERLEAF systems has been of crucial importance in enabling 14 technical writers to meet important TAOM, THAAD, P31 and IETM milestones on schedule.

Tom Mueller was nominated by Bruce Linder for his assistance in determining the solution to a problem with the FAX verification test on TSC Shelters. Tom was able to determine that high lab background noise was causing the test to fail repeatedly. The test procedure was changed, the test was successful and the shelters were

shipped on time.

Brad Barker was nominated by Al Kushida for his assistance on the Omnibus Cost Proposal. Although this is not Brad's normal responsibility, he took the initiative to spend many extra hours communicating with his 'customers' to identify the problem areas and devise a simplified approach to accomplish the successful completion of this proposal.

Alice Prather was nominated by Ima Miranda, John Armenian and Bill Cook for her support on the CDRL (Contract Data Requirements List) for the THAAD organization. As the document technician responsible for publishing the CDRL, Alice's expertise in merging documents or files from different environments into compatible formats, along with her flexibility and responsiveness, has proven invaluable on many occasions.

Elsie Becica was nominated by Daniel Fisher for her assistance in

Litton Announces Third Quarter and Nine Month Results

Litton Industries, Inc. reported net income for the third fiscal quarter ended April 30, 1996 rose 9% to \$38.8 million and sales for the period increased 17% to \$1.0 billion. For the fiscal nine months ended April 30, 1996, the Company's net income improved 12% to \$108.2 million, while sales totaled \$2.6 billion, a gain of 10% over the prior year period.

John M. Leonis, chairman and chief executive officer of Litton, stated that, "During the first nine months of our fiscal year, we have significantly expanded both the size and capabilities of our businesses through acquisition. At the same time, we have remained financially strong and conservatively capitalized. We continue to seek further ways to grow through acquisitions and internally generated opportunities."

Litton reported that the increase in third quarter sales was due principally to acquisitions completed during the period and the last fiscal year. On February 16, the Company acquired PRC Inc. from The Black & Decker Corporation for a preliminary purchase price of \$425 million in cash. PRC is a diversified information technology company involved in systems management and integration. PRC had calendar 1995 sales of approximately \$710 million.

Also on February 16, Litton completed the purchase of TELDIX GmbH from Bosch Telecom of Germany. With annual sales of approximately \$70 million, TELDIX provides avionics and navigation equipment for a number of major European weapons systems.

On March 19, Litton sold \$300 million of 7.75% debentures due 2026 and \$100 million of 6.98% debentures due 2036. The proceeds were used to finance the PRC acquisition. □

The Rec Club Corner

EXERCISE AND AGING

The average life expectancy for Americans in 1890 was 43 years for men and 45 years for women. In 1940, those figures increased to 65 for both men and women. Today, health experts predict that 73.7 years is the average length of time many of us can expect to live. It's encouraging to see those numbers on the rise. But, it's equally discouraging to see the increase in the number of Americans who will spend an estimated 11.7 of those years suffering from diseases and physical disabilities that, in many cases, occur as a result of unhealthy lifestyle-related behaviors.

Studies continue to show that as people age, the benefits of regular exercise grow more important. Exercise has a beneficial effect on the aging body, helping to maintain fitness and slow down the physical effects of ag-

ing. Physiologic studies of older runners, tennis players and swimmers reveal superior fitness among this active group, compared with others in the same age group. Highly active individuals lose an average of 4% in cardiovascular fitness, compared to 8% for inactive subjects. Regular exercise postpones the age-related decrease in physiological capacity by 50%.

Research studies have shown that even into our eighties and nineties, visible improvements to our health and physical well-being can be achieved with regular exercise. If it is maintained throughout life, the health benefits achieved by its performance will continue as well, regardless of age. Exercise can help reduce the risk of developing many physically debilitating diseases associated with aging such as osteoporosis. It can improve

the performance of common everyday activities. And, it can provide us with the energy and the overall sense of well being which is important for optimum physical and mental health. Even moderate exercise performed three times a week for at least twenty to thirty minutes can produce visible improvements to health. Exercise can provide us with the potential to "add life to our years" rather than just "years to our life," and increases our ability to spend those years in the best health possible.

Coed Low Impact Exercise Classes are offered every Tuesday and Thursday from 5:15 - 6:15 P.M. in the cafeteria of Building 5 by a certified professional aerobics instructor. The classes are sponsored by the Employee Recreation Association through the Litton-Up Exercise Club, with only a \$5.00 initial sign-up fee. □

News From The Field

Kennedy Receives AFA Award

Bobby Kennedy, Data Systems' Northeast Regional Marketing Manager, was presented with the Massachusetts State Air Force Association President's Award for Exceptional Service by Congressman Peter Torkildsen. The award was presented during the AFA Awards Night held at the newly refurbished USS Constitution in May. Also in attendance were ESC (Electronic Security Command) Commander, Lieutenant General Ed Franklin and senior members of the ESC staff.

Kennedy, who is located at Data Systems' Field Office in Lexington, Massachusetts, is Vice President of the AFA Paul Revere Chapter.



Essigmann and Parker Organize AFA Symposium

Kathy Essigmann and Joan Parker from the Data Systems' Lexington, Massachusetts office were the principal organizers of the recent AFA Symposium entitled, C4I Implementation for the Warrior. This two day event was a big success. Over 100 attendees and dozens of speakers and ESC participants heard from DoD and NATO briefers, and toured the C2 Unified Battlespace Environment (CUBE) at ESC.

Kathy and Joan were both recognized by Mr. Dick Galloway, AFA Paul Revere Chapter President, for their support. □

Data-To-Day

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building. Litton Data Systems, as subcontractor to Ingalls, will provide the shipboard communications design for the U.S. Navy's Arsenal Ship. Ingalls is teamed with Lockheed Martin and Newport News Shipbuilding, with Lockheed Martin heading the team's Phase I efforts. Representing an important source of potential future business for both Ingalls and Data Systems, as well as the other defense contractors on the team, the award funds the first element of a six-phase program that will ultimately include construction of the Arsenal Ships—floating missiles that could be launched against multiple targets by remote control from another ship, from aircraft or from land-based control sites. As envisioned, the ship will incorporate stealth technology for improved survivability and highly automated control systems for reduced manning levels and lower operating costs. □

Standards of Conduct: Environment Concerns

This month's article is on "Environment Concerns," item 12 in Data Systems' "Standards of Conduct" booklet.

Litton Data Systems is committed to the protection of the local environment, the conservation of natural resources and compliance with State and Federal environmental laws and regulations. This commitment can be seen in Data Systems' Environmental Management Program which is administered by the Director of Facilities and addresses both environmental and waste management concerns. While the Director of Facilities is the administrator of this program, it involves individuals from different departments, including Security/Safety and the various functional organizations.

The Facilities organization is responsible for establishing guidelines for environmental control activities and reviewing actions which may increase

the amount of environmental risk associated with an operation. Additionally, Facilities is responsible for incorporating relevant environmental management features into the design, construction, maintenance and modification of Data Systems' facilities. Other responsibilities lie with the various functional organization managers, who are expected to apply the fundamental principles established in this program to all operations within their area of responsibility, and with their employees, who are responsible for complying with established environmental and safety rules while performing their assigned duties.

Additional information regarding "Environment Concerns" can be found in the Division Standard Practice manual. Any questions regarding this Standard should be addressed to your immediate supervision or the Security and Safety organization. □

Going Above and Beyond

The CSTS (Combat Simulation Test System) Integration Team of Pam Borsage and Mike Little



was recognized by DSD Mississippi Vice President and General Manager Bill Allison (at left) during May's ICARE Awards ceremony. Pam and Mike were nominated by Dwight Kibler for going outside their normal job duties and assuming the CSTS integration responsibilities for the Build 8.0 and 8.1 releases. Their efforts resulted in a successful, on-time delivery. □

PC Classes Offered

Human Resources is offering the following classes in August. All classes are held in Building 3, Room 540.

Introduction to Windows: Meets five days for one and one half hours each day. Begins on Monday, August 5 at 12 noon. Participants will learn to work with Windows using the mouse or keyboard. Topics covered include the use of menus and dialog boxes; exploring and managing the Windows display; using the file manager; customizing the Windows display with the Control Panel.

Word 6.0 for Windows Introduction: Meets five days for one and one half hours each day. Begins, Monday, August 12 at 12 noon. Topics covered include creating, saving, retrieving, closing and printing a document; modifying a document using Insert, Delete and Typeover; formatting documents by setting margins, altering justification, creating and modifying tab settings and utilizing the tools contained in Word.

Introduction to Access: Meets five days for one and one half hours each day. Begins Monday, August 26 at 12 noon. Topics covered include an overview of database features; creating and modifying tables; finding and editing records in a table; creating and using queries and forms; creating reports; creating a database and copying objects.

Full course descriptions, along with registration forms, may be obtained at the "Learning Opportunities" located in each building. Call 706-4678 for additional information. □



In the Spotlight

Actually finding last month's mystery employee in town for an interview was pure luck. That's because Program Management Specialist, **Charles Richardson** of Business Development, spends a great deal of time on the road visiting customers and potential customers.

Charles began his Data Systems' career immediately following his graduation from California State University, Northridge, with a degree in electrical engineering. He began in 1983 in the Systems Test area involved with most of our programs, particularly the Hand Held Terminal Unit (HTU), Artillery and Air Defense. He was

promoted to a Senior Engineering position in 1987. During this time, he supported Business Development quite extensively in the areas of field demonstrations and tests. In 1990, he made the move from Engineering to Business Development and was put in charge of the Marine Corps Fireflex Program. He found himself spending quite a bit of time overseas in 1991 when this product was used, quite successfully, during the Desert Storm operation.

Since 1992, Charles has also been heavily involved with HTU development, particularly the transition from 386 to 486DX computers. He feels HTU is an extremely important product for the Division and its success in current programs will be a stepping stone for a great deal of future business.

Charles entered the engineering field because he enjoys the challenge of problem solving. He feels his engineering background makes him much more effective in his Business Development role. He keeps abreast of the changing technology in order to have



the expertise to understand customer needs and concerns. It also allows him to be a more vital link between the customers and the engineers designing the products.

Charles is a native Californian. He grew up in Gardena and attended Locke

High School, where he was on the football and track teams. He continues to run to keep in shape, and also enjoys swimming.

Charles currently makes his home in Lake View Terrace, along with wife, Monique, and daughters, Shonique, 12, Marissa, 8, and Courtney, 4. Charles spends most of his free time with his family.

They like to spend their weekends together — traveling, going to the beach or out to dinner. He also likes to spend time watching his daughters play basketball or working on his home computer.

This month's mystery employee has been with Data Systems for over 25 years. She has worked in several different organizations during her career. She was once an active member of one of our Employees Recreation Association clubs, but is now very involved with a different type of club. She has been known to change her hair color quite frequently. Do you know who she is?

Please submit all entries to Data Systems Today Spotlight Contest at Mail Station 15-22 by August 5, 1996. 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 Edward's, General, Pacific, AMC or United Artist theater. □

ICARE

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preparing a Customer Briefing package for a key Army customer. Elsie was able to translate the information she was given into pictures that illustrated the Division's products and capabilities to the customer. It was due to her initiative and dedication to producing a professional product on very short notice, under difficult circumstances, that Dan had the Customer Briefing package in time for his meeting.

Each award recipient receives an ICARE cup, pin, desk pen set, certificate and a gift valued at \$75, good at one of five department stores. Employees selected for a second ICARE award receive a photo cube to add to their desk pen set and employees receiving their third award receive a matching paper clip dispenser. Award winners are also invited to attend the semiannual Award Winner's Luncheon held at the Radisson Hotel in Agoura.

Since the program began in February 1994, 291 employees have received ICARE awards. □

Award

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Systems Based on Commercial Standards and Dr. Ray Madachy for *Measuring the Software Process*.

This three day event also featured a number of speakers from Litton's divisions. Chosen to present their papers, on the basis of excellence, were Data Systems' employees John Rodwig, Jay Lubin, Ed Nakahara, Arsen Melconian, Jarrell Collier and Jack Humes.

Since 1980, more than 100 men and women have been honored with Advanced Technology Achievement Awards. □

Milestones

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



Nickolas Loukatos

25 years, Technical Manager, Engineering.



Alan Bice

20 years, Senior Engineer, Engineering.

30 years: William Grab.

25 years: Elizabeth Hamilton, Thomas Mueller, Diane Dye.

15 years: Michael B. Smith, Ralph Anderson, Erlinda Shalack.

5 years: Frank Arellano. □



Louis Gonlag

20 years, Designer Specialist, Engineering.

Promotions

Congratulations go to the following employees

Engineering: Steven Efferts to Senior Engineering Specialist. Eva Leyva to Clerk-Data Control, Senior. Morris Cain to Technical Manager. Douglas Morgan to Scientist.

Administration: Pierre Decayette to Repair Analyst

Business Development: James Karins to Director-Program Office. □

Personals

Notes and cards of thanks sent by fellow employees were received from:

Al Watts for the beautiful flowers and best wishes and prayers of friends during his recent recuperation from surgery.

Al Ungar for the cards, calls and flowers given in memory of his sister □

On Board

Administration: Barbara Lowe, Alex Rozenblat, Gladys Troemel.

Operations: Lupe Amescua, Margaret Crowe, Margitta Ives, Mary McDonald, Gilma Saravia, Don Smith.

Engineering: Stephen Vale. □

Gone fishin'

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

Ronald Demijohn

Richard Hirasuna

Cletus Isbell

George Miller □

ETC Notes

Chris Cavaliere is the latest winner of the \$100 gift certificate

Three-day rideshare minimum
Employees need only participate in some form of ridesharing for a minimum of three days per week (or an average of twelve days per month) to be eligible to collect incentives under our program.

How to collect benefits

It's simple. The only requirement is that you register with the employee transportation coordinator (ETC) as a ridesharer prior to the month in which you begin earning your benefits. A "YES, I am interested in ridesharing" form, which asks you to list your ridesharing partners and registers you as a ridesharer, needs to be completed and on file with ETC Paul Higgins prior to submitting your Incentive Claim Form. Forms may be obtained by calling Chris Cavaliere in Agoura Hills at extension 4323. Paul Higgins also needs to be notified of any changes in your current carpooling arrangement before you submit your claim form. All rideshare benefits are paid within the first ten working days after the month in which they are earned. □

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: August 5

FOR SALE

VICTORIAN 9-piece 4-poster bedroom set. Vanilla color with carvings and canopy. Excellent condition. \$475.00. Yolanda Puckett (818) 879-8677.

FOUR WOODEN BAR STOOLS that swivel (Captain's Chair Style). \$40 00 each. Call Reider at (818) 894-9122.

SIMI VALLEY. West side. 3+2, family room, central air, pool, tennis, cul de sac, built-ins, fireplace, attached garage, fruit, roses, fenced yard. \$180,000. Call Mitzi Coffin (818) 769-0888

FOR RENT

APARTMENTS - \$395 total move-in. Single - \$315.00. Large studio w/kitchen - \$425.00 One bedroom - \$515.00 Laundry, covered parking, new carpets, paint and blinds. 15938 Vanowen Street. (818) 981-1802.

OTHER

REALTY: Call for brochure, "Las Vegas, City of New Beginnings" or let me give you a free tour of the fun capital of the universe. Lorrin Peterson, PPM Realty, 1-800-315-PETE

ACOUSTIC CEILINGS. Furnished/unfurnished homes. New/Respray. Interior wall repairs Texture to match. Jim Daniels for free estimate. (805) 584-8747. License #436134.

AIRPLANE RIDES! Certified flight instructor available for primary or commercial flight training at Van Nuys or Santa Monica airports. Reasonable rates. Phil (818) 883-6536.

POWER WINDOWS. Reasonable repair and service. Call Bill evenings and weekends (818) 340-8421. □

Hotline

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

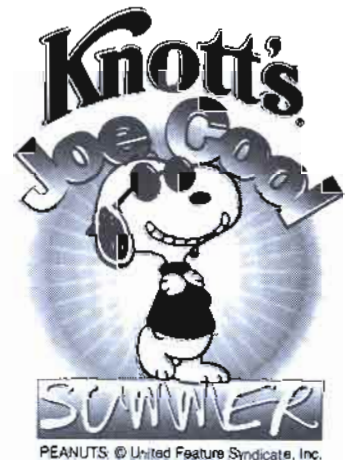
- Moorpark/
Agoura Hills.....818-706-4669
- Other Ca.....1-800-843-5165
- Outside, Ca.....1-800-237-0934 □

Save up to 50% on Knott's Tickets

Employee Services has a limited number of tickets available for Knott's Summer Savings Days. The tickets, good through September 2, 1996, are \$17.95 for adults (12 & up) and \$9.95 for children (3-11). Children 2 & under are free.

These tickets allow unlimited use of all rides, shows and attractions, including Snoopy's Joe Cool Summer™ line-up of new shows and outrageous family fun.

Don't miss out on this special offer. Tickets may be purchased from Chris Cavaliere in Human Resources. □



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