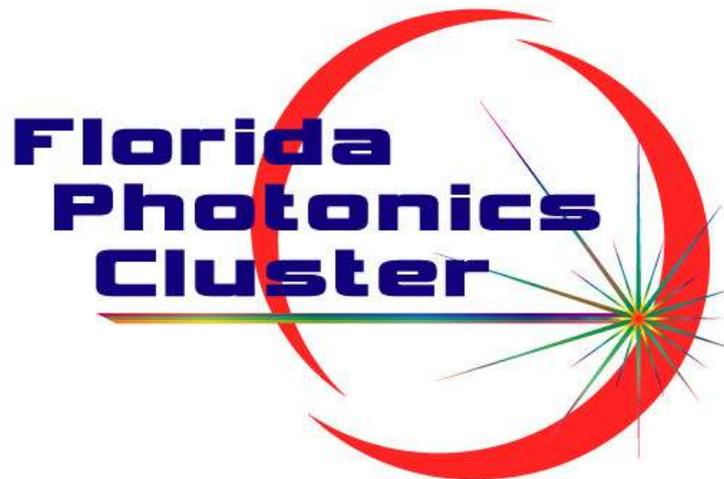


Alex Fong

From: Florida Photonics Cluster [afong@olinet.com]
Sent: Tuesday, August 19, 2008 10:50 AM
To: Alex Fong
Subject: News from Florida Photonics Cluster



Florida Photonics Quarterly

The Florida Photonics Cluster Newsletter

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FROM THE PRESIDENT

"Our problems are manmade, therefore they may be solved by man. And man can be as big as he wants. No problem of human destiny is beyond human beings."

-John F. Kennedy

So let's talk about the 5,000 lb gorilla in the room whose name begins with "R." It is easy for one to make news of the many crises that unfold as a consequence of the political and economic events that are occurring, and even more so those that emerge at our prodding. Hard-wired to the 24-hour news cycle, one would have little opportunity for feeling optimistic, and why would anyone watch all the "news" were it not so?

It is natural to lose confidence in light of what is happening - at times like these when all the odds seem stacked against progress to our objectives and ambitions. Much more difficult, but far more productive, is reminding ourselves of those better tomorrows that



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FPC SPECIAL EVENT
OCTOBER 2, 2008!**

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came before and will come again do not happen without our deliberate effort to make it so.

In the past 6 months, I have seen both the fear in the eyes of some, but also the strength and deliberate effort to "get on with it" in most. I think that the latter defines the tipping point in such cases. They are the ones that won't be cowed by manufactured media panic while the former compounds theory into reality.

As leaders in industry, it is our charge to make such a deliberate, positive effort if only for the betterment of our enterprise. We cannot afford to wallow in the cable news inspired fear and mob-driven loathing - we must get on with it, and in doing so we will be that which lights the way to the exit from this dire episode in economic history.

So it is that I am happy to report that the photonics industry, while seeing some softness, continues to move forward with investment and innovation and we in Florida are a perfect example of just that strength. This month we spotlight Harris Corporation, an industry leader in RF communications with a significant capability in photonics. Harris has enjoyed growth in commercial, government and defense segments under numerous economic cycles and is a great example of such strength in our community. Enjoy!

COMPANY SPOTLIGHT

HARRIS CORPORATION **Melbourne, FL**

By Jeff Rollman



From its incorporation in 1895 by Alfred and Charles Harris as a printing press company, Harris Corporation has grown to a international company with annual revenues of more than \$5 billion employing over 16,000 people in 150 locations worldwide. Today Harris is recognized as a world leader in assured communications® solutions serving both government and commercial customers. Headquartered in Melbourne, FL, Harris provides communications products, systems and services for global markets, including four businesses focused on Government Communications Systems, RF Communications, Broadcast Communications, and Harris Stratex Networks. The company's engineering and manufacturing facility in Palm Bay, FL employs almost seven thousand people making Harris a major employer of engineers and technicians in Central Florida.



Known primarily as a supplier of defense communications and broadcast equipment, Harris is also an industry leader in high-

reliability, high-performance, electro-optic devices for both commercial and government applications. Although most of the focus at Harris in optics supports classified work for government customers, the electro-optics group at Harris' Palm Bay facility has a strong legacy in designing and building generic and specialized optical products for both scientific and commercial applications. Comprised of 57 scientists, engineers and technicians (eight holding PhDs), the Harris Electro-Optics (E-O) group has been awarded 52 patents with more than 25 pending. Numerous laboratories (22,000 square feet) and precision optical fabrication facilities (4,000 square feet) support a wide variety of optical programs covering 157nm to 10.6um applications.

The Harris E-O group has a tremendous range of experience, capabilities, and research interests, with proven technology solutions spanning more than 40 years. The group has a product portfolio that includes Q-switches, cavity dumpers, mode lockers, acousto-optic modulators, beam deflectors, wave guides, spectrum analyzers, integrated fiber-optic components, and several other specialized devices. In addition, fiber communications activities cover the range from multi-mode avionics data link engineering and design, to short and long-haul WDM communications data link development, design, and testing. These products and capabilities currently support applications in the semiconductor and telecommunications sectors, and recent activities within the group are expanding this focus to include the medical and laser machining markets.

By leveraging work performed for the government and other commercial companies, the E-O group is uniquely positioned to develop new solutions for today's toughest optical problems. They also collaborate with a number of universities and research institutions to investigate new and exciting optical technologies.

Some of the group's current research and technology interests are:

- Fiber optic devices and technologies
- EDFA technologies
- High resolution scanners
- Reconfigurable WDM test beds
- Fiber optic transponders
- Microwave photonics
- Planar lightwave circuits
- Free-space optics
- High sensitivity receivers
- RF-channelized receiver technology
- High resolution scanning and recording systems
- Optical coherence tomography
- Multi-photon microscopy
- Laser micro-machining
- Wideband EO modulators
- Optical signal processing
- Acousto-optic technology
- Bragg cells

With considerable investment in state-of-the-art optical communications and electronic equipment, industry-leading software applications, and tools for designing, building, and programming custom electronics and mechanical interfaces, the company's E-O team is capable of producing quality products from design concept to volume manufacturing.

For more information contact Jeff Rollman at jeff.rollman@harris.com or [visit us at our website www.harris.com](http://www.harris.com).

FEATURE STORY:

[METRO ORLANDO ECONOMIC DEVELOPMENT COMMISSION](#)



DEVELOPMENT & GROWTH POTENTIAL OF INTER-CLUSTER SYNERGIES & PARTNERSHIPS

By Eric Ushkowitz

The future of the optics and photonics industry in Metro Orlando is looking bright. Already boasting over 70 companies and more than 25,000 workers in our region, the combination of the presence of the Department of Defense and related technology sectors will further strengthen this "enabling technology" in the region. Metro Orlando is already home to the world's largest cluster of modeling, simulation and training technology companies, many of whom also have a large presence in the optics and photonics sector as well as the digital media and IT industries. Add to that the biotechnology / life science and "clean tech" industries that are emerging in Metro Orlando and this spells optimism for the blending of various sectors within optics and photonics, enhancing spin-off industries such as bio-photonics and medical simulation.



[For more information, visit www.orlandoedc.com](http://www.orlandoedc.com)

PRESS RELEASE:

LIA's Guide to Laser Cutting, 2nd Edition Now Available!

Laser Institute of America (LIA) is pleased to announce the release of the second edition of LIA's popular Guide to Laser Cutting. Packed with everything you need to know about laser cutting, this guide offers in-depth and helpful information from the small shop owner to

the large manufacturer. It's the industry's "blueprint" for implementing, operating, and maintaining a laser-cutting operation.

Order the industry's best laser cutting guide today!

Guide to Laser Cutting, Second Edition

LIA Pub# 122

Price: Member: \$39.00

Non-member: \$49.00

ISBN # 978-0-912035-16-1

[Order online at www.laserinstitute.org/store](http://www.laserinstitute.org/store) or call toll-free at 1-800-34-LASER.

CHECK OUT THE FPC BLOG-SITE!

[Ask Questions, share your thoughts and find out what's happening in Florida Photonics at www.floridaphotonicscluster.blogspot.com!](http://www.floridaphotonicscluster.blogspot.com)



JOIN FPC'S NETWORK ON LINKEDIN!

[Don't miss the new FPC network established on LinkedIn!](#)



A Florida Photonics Cluster Group has been established on "LinkedIn." LinkedIn is a business-oriented social network service, mainly used for professional networking. As of December 2007, its site traffic was 3.2 million visitors per month, growing at an annual growth rate of about 485%. As of March 2008, it had more than 2 million registered users spanning 150 industries. There are other similar sites, but LinkedIn is by far the largest, best known, and most popular.

The way it works is that members post professional information much like an online resume. The site will analyze the data and suggest people you might have met or worked with in the past and

start compiling a network of contacts that it can keep you posted on. In turn, others on the network can invite you to join their network, which then connects you to other potential people in your industry that you can draw upon. It automates the networking process allowing you to efficiently make connections through those you know to people and companies/organizations you seek to further a relationship.

Creating a group for the FPC fulfills part of our charter to create opportunities for networking. Several individuals from FPC member companies have joined the LinkedIn FPC network.

[Join the FPC network on LinkedIn today!](#)

<http://www.linkedin.com/e/gis/89774/0F904052D5CC>

SAVE THE DATE!

**[FPC Meeting, Seminar,
and Open House
October 2, 2008!](#)**



Mark your calendars for Thursday, 2 October, for a meeting for FPC members and prospective members. The program will start at 4pm, and will include a seminar on Online Marketing and Search Engine Optimization (SEO) by Tom Jelneck of On Target Web Solutions, a tour of the host company's facilities (more information to follow soon), and a hosted reception.

**[For event details and to register, visit
http://www.floridaphotonicscluster.com/EventsShows.html](http://www.floridaphotonicscluster.com/EventsShows.html)**

SPECIAL LASER INSTITUTE OF AMERICA DISCOUNT!

**[A special gift offer to any
company or organization
that joins the Florida
Photonics Cluster...](#)**



Laser Institute of America (LIA) is a supporter of optics clusters worldwide for the purpose of advancing the application of lasers and laser safety worldwide.

As part of LIA's support of the Florida Photonics Cluster (FPC), several special discounts are provided to companies and organizations that are FPC members. All FPC members can receive a \$100 discount on corporate membership dues for one year with Laser Institute of America (LIA) when joining the LIA as a new corporate member. Additionally, FPC members are eligible for a

substantial discount on advertising space through the following LIA media outlets: LIA's bimonthly newsletter LIA Today, LIA's monthly online newsletter LIA Connection, LIA Laser Application Resource Guide, the Journal of Laser Applications and LIA's Website.

To receive these discounts, include a copy of your FPC membership application or dues payment with your LIA corporate member application and/or ad space order. For the LIA corporate member application, make your check for Laser Institute of America for \$100 less than the normal dues for the level of membership you choose.

For information on the level of ad discount for your company, contact Jim Naugle, LIA Marketing Director, (jnaugle@laserinstitute.org, 407/380-1553, x34).

[For information about the LIA, including benefits, individual and corporate member dues and application forms, or to download an application form, go to http://www.laserinstitute.org/membership](http://www.laserinstitute.org/membership)

[For information about the FPC, including dues and application form, go to http://www.floridaphotonicscluster.com/](http://www.floridaphotonicscluster.com/)

JOIN THE FPC TODAY!



[Enjoy the benefits of FPC membership!](#)

[Why Join FPC? To Make Money!](#)

Benefits of FPC Membership:

- Identify common needs and interests
- Leverage to develop opportunities through joint efforts, pooled resources and knowledge
- Regional, Statewide, National and International Reach Small, Medium, Large Corporations, Academe, and Government all Benefit!

FPC Membership Benefits Include:

- The strength of a unified industry voice providing a platform for local and state legislative support

- Visibility for your company through FPC's website, marketing literature, and trade show displays with member spotlight on companies and products and opportunities to participate in state and national sales and marketing efforts
- Liaison opportunity with other international photonics organization such as other photonics clusters (Arizona, Rochester, UK), scientific societies (OSA, SPIE) and industry trade organizations (OIDA).
- Networking opportunities through annual and regional membership meetings
- Discounts (10%) on exhibit space and other special benefits at SPIE and OSA conferences. Typical benefit per show start from over \$300 (10' X 10' booth) and \$600 (10' X 20' booth).
- Discount of \$300 to the membership rate with the Industrial Affiliates Program of the University of Central Florida's CREOL, The College of Optics and Photonics
- Admission to all Florida Photonics Cluster Events included in membership
- Access to service providers that can assist your company with the actions that are necessary for sustaining your business such as banks, suppliers, and professional marketing, communications and legal services organizations at preferred rates
- An expansive resource base that includes partnerships with Enterprise Florida, area economic development organizations, the Florida High Tech Corridor Council, and CREOL, to provide access to incentives and business development programs and research
- Assisted access to venture capital and opportunities to help develop Florida photonics companies into worldwide participants
- Opportunities to participate in the curriculum development in state universities and community colleges and advanced access to Florida's best and brightest students and the additional ability to recruit nationwide through the FPC website

[Join FPC today and enjoy the benefits of membership!](#)
[For more information, visit floridaphotonicscluster.com.](http://floridaphotonicscluster.com)

WELCOME NEW FPC MEMBERS!

FPC's newest members:

[Laser Institute of America](#)



[L-3 Communications](#)



Spectrecoology



Tower Optical Corporation



Triple Play Communications



Central Florida Development Council



The Florida Photonics Cluster (FPC) Website now accepts



donations, member dues, and other payments through PayPal (<http://www.paypal.com/>).

PayPal is a fast, convenient and safe way to make online purchases and transactions. You can pay without revealing your credit card or bank information! Note that submission of a membership application is still required for new applicants joining the FPC, and for updating renewing memberships.

Greetings FPC Members and Friends,

The Florida Photonics Cluster is designed to support the growth and profitability of the Florida photonics industry through the strength of a unified voice to make Florida the place to go for photonics solutions. The FPC is dedicated to enhancing the industry through effective collaboration by bringing together the knowledge, expertise, and service that each of its members organizations has to offer.

FPC Goals

- Foster the expansion and growth of Florida's optics and photonics industry by partnering with economic development organizations, the state universities, and community colleges, and local and state governments.
- Market Florida's optics and photonics companies worldwide.
- Facilitate and provide a means of communication within the business community.
- Partner with the Florida education community to enhance and develop a competent statewide optics and photonics-based workforce.
- The FPC is a 501c(6) not-for-profit corporation, registered with the Florida State Division of Corporations.

today!

[For more information, visit www.floridaphotonicscluster.com](http://www.floridaphotonicscluster.com)

Sincerely,

Alexandre Fong, President
Florida Photonics Cluster

Jenna Reiser, Editor/Marketing Communications Manager

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