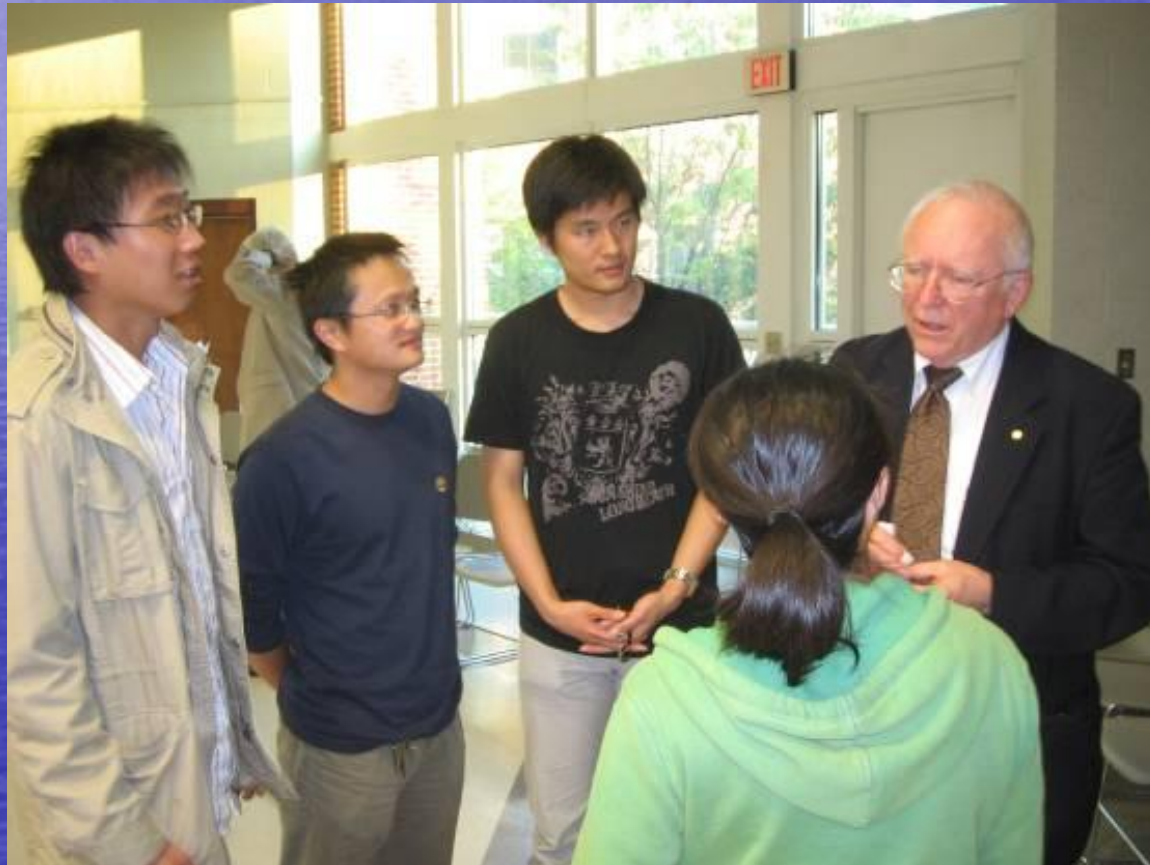


# Chapter activities at UAH

Fei Liu

The University of Alabama in Huntsville

# Student Chapter Activities



PLEASE POST



ALABAMA A&M UNIVERSITY  
ANNOUNCES



The 12th Annual Putcha Venkateswarlu Memorial  
Lecture  
(AAMU Distinguished Professor of Physics)



**Friday, November 6, 2009**  
**Lecture @ 3:00 PM**

**"The Coming Revolutions in  
Fundamental Physics"**

**James I. Dawson Auditorium  
Cooperative Extension Building**

**Followed by**

**Reception @ 5:00 PM**  
**Chde Foster Multi-Purpose Room**  
**School of Business**

**Speaker Nobel Laureate**  
**Dr. David J. Gross**

Kavli Institute for Theoretical  
Physics, University of California,  
Santa Barbara

Nobel Laureate Prof. David Gross was the co-recipient of the 2004 Nobel Prize in Physics along with David Politzer and Frank Wilczek "for the discovery of asymptotic freedom in the theory of the strong interaction." This discovery led to a completely new theory, Quantum Chromodynamics, QCD. With the aid of QCD physicists can explain why quarks only behave as free particles at extremely high energies.

**EVERYONE IS INVITED**



**Raytheon**



**ORAU**



**When: Today 3:00pm**  
**Where: James Dawson  
Auditorium**  
**A&M University**

# Chandra Vikram Memorial Conference

HUNTSVILLE ELECTRO-OPTICAL SOCIETY

Local Section  
**OSA**

**SPIE**  
LOCAL MEMBERS

Corporate Members

**Submit your Abstract Today**

for

**Chandra S. Vikram Memorial Lectures in Optics**

Brilliant, innovative, gracious and esteemed are all words that describe the late Chandra S. Vikram. In recognition of his important contributions to optics and his outstanding human character, the Huntsville Electro-Optical Society (HEOS) has established an annual memorial conference. This is an opportunity for scientists and engineers from all fields of optics to carry on the tradition of scholarly excellence and the communal spirit of optics research that Professor Vikram embodied. All proceeds from the conference will be donated to support middle and high school educational outreach programs in optics, photonics, and nanotechnology in the State of Alabama.

We are currently soliciting abstracts (250 word limit) on modern optics topics to be presented at a **one and half day conference** to be held at the **University of Alabama in Huntsville on May 1, 2009**. In addition, we are accepting abstracts for a student poster session on **April 30, 2009** with scholarship awards for the top three poster presenters.

**Topics**

- General Optical Metrology
- Photonics/lasers
- Nanotechnology



# Chapter Meetings & Social



# Student Poster Competition



HEOS Posters 01



HEOS Posters 02



HEOS Posters 03



HEOS Posters 04



HEOS Posters 05



HEOS Posters 06



HEOS Posters 07



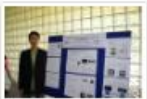
HEOS Posters 08



HEOS Posters 09



HEOS Posters 10



HEOS Posters 11



HEOS Posters 12



**SPIE**   
**Student Chapter**  
University of Alabama in Huntsville

**UAH SPIE Student Chapter Guest Lecture**

Friday, Jan. 16 2009 at 11:30 AM,  
followed by **FREE** reception  
*In physics seminar room*  
*(Room 237 in the Optics Building)*

**Coding and Sampling in Computational Optical  
Sensors**

*by:*

**Dr. David J. Brady**

**Abstract:**

Computational sensors use multiplex coding and generalized sampling to improve data efficiency (compression), field of view, depth of field, spectral sensitivity and feature-specific measurement. This talk describes several example sensor systems and discusses existing and emerging strategies for physical code implementation using spatial light modulators, thin film and Fabry-Perot filters and plasmonic devices.



**David J. Brady** is Professor of Electrical and Computer Engineering at Duke University, where he leads the Duke Imaging and Spectroscopy Program. Professor Brady is a pioneer of computational optical imaging and spectroscopy. His invention of multimodal multiplex spectroscopy was awarded a 2006 R&D 100 award. He is also the inventor of coded aperture snapshot spectral imaging and reference structure tomography. He is a leading innovator of compressive and generalized sampling in optical sensor systems and is the author of "Optical Imaging and Spectroscopy," a 2009 joint imprint of the Optical Society of America and Wiley. Prior to joining the Duke Faculty as founding director of the Fitzpatrick Institute for Photonics, Prof. Brady was on the faculty of the University of Illinois from 1990-2001. He earned a B. A. in physics and math from Macalester College and M.S. and Ph. D. degrees from the California Institute of Technology. Brady is also Chief Scientist and member of the Board of Directors at Centice Corporation, which manufactures the PASS Rx system for retail pharmacy product quality assurance, and is Chief Scientist and Chairman of the Board of Directors at Applied Quantum Technologies, which manufactures spectral imaging systems. Prof. Brady is a fellow of OSA, SPIE and IEEE.

# Visiting Lecturer Program

- SPIE
- OSA

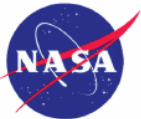




HUNTSVILLE  
ELECTRO · OPTICAL  
SOCIETY



Corporate  
Members



## Annual Banquet Dinner at the U.S. Space and Rocket Center

Special Invited Speaker

**James C. Wyant, Dean and Professor, College of  
Optical Sciences, University of Arizona**  
"The College of Optical Sciences - Past, Present,  
and Future"

Date: Thursday, August 13, 2009

5:30 pm Museum Tour and Cash Bar

6:30 pm Dinner Served

7:15 pm Guest Speaker Presentation

Location: U.S. Space and Rocket Center

Galaxy Dining Room overlooking

Rocket Park

Cost: \$25 per person Buffet Dinner

(Student Discount Rate \$15)

RSVP required by Aug. 5



Bio

### Abstract

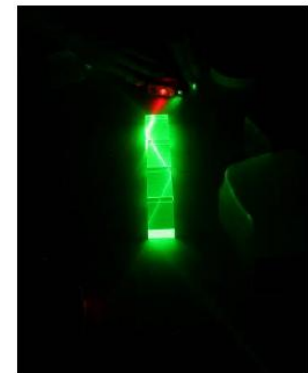
The College of Optical Sciences at the University of Arizona is a great place to do research and to study and learn optics and photonics. This talk will give a short history of the Optical Sciences Center, now the College of Optical Sciences, describing some of the decisions and actions that have shaped the college. The current status of the college and future plans of the college will be presented. The speaker will give his view of the future of optics and photonics.







# Educational Outreach



Illustrations of stress induced birefringence and total internal reflection at the HEOS Spooktacular Weekend.

# Publicity

OSA TODAY | MEMBER NEWS

[ Travel Log ]



Our Young and Talented Student Chapter members from the University of Alabama in Huntsville, Ala., U.S.A.

[ Publications ]

**Welcome New Editors**

We are happy to announce that **Mingqiang Bi** of Tsinghua University in China and **Agne Vengrison** of the Naval Research Laboratory have agreed to serve as new regional editors for *Optics Letters*. Also, **Debra Lindsey** of Ohio State University has recently joined the editorial board of *IOSSA*.

We'd also like to thank **Chien-Guechi** of Princeton University and

**Colin McKenzie** of Alcatel-Lucent for agreeing to serve second three-year terms as assistant editors for *Optics Express*. **Guofeng Bai** of UoM and **Wolke Kitzka** of the Technical University of Munich are also starting second terms as regional editors for *Optics Letters*. We thank these members of the optics community for their support of OSA journals.

[ OSA Benefit Highlight ]



OSA Fellow **Stephen A. Boppert** has been selected as the winner of the 2009 Paul F. Frense Engineering Excellence Award. Boppert was honored for his work in advanced engineering education by founding and directing the Laboratory for

## FOCAL POINT

POWERED BY:  
**OSA**  
Optical Society of America

The OSA Local Section and Student Chapter Newsletter

[Back to the main page](#)

### News From OSA

#### IONS China 2009, the first IONS Asia Took Off

*Written by Duo Li, Fei Liu and Jian Zhang*

Sponsored by the OSA and the Changchun Institute of Optics, Fine Mechanics and Physics (CIOMP), the first IONS Asia conference took place during May 23rd-25th 2009, in the city of Changchun, China ([www.ionschina2009.org.cn](http://www.ionschina2009.org.cn)). This event attracted more than 70 attendees from nine China-based OSA Student Chapters along with one chapter from the U.S. (Univ. of Alabama in Huntsville).

This event is organized by the CIOMP Student Chapter of OSA. The main purpose was to strengthen regional collaborations of OSA student chapters and help promote a nationwide and student-oriented network. One of the many important achievements is that for the first time it successfully establishes a national network connecting optics students from northern to southern China. Fellow students who know each other through facebook, twitter and Groupsite (CollectiveX) now have a chance talking face to face.

On the first day morning, Dr. David Brady from Duke University kicked off the conference with the exciting presentation "Computational Optical Imaging", followed by talks given by Dr. Xuejun Zhang (CIOMP) and Dr. Junpeng Guo (UAH). During the afternoon session, students presented their own research, and shared their learning experience through seminars. Other activities included lab tour at the CIOMP, a visit to the Changchun Observatory Station, a poster competition as well as a reception dinner and a fun picnic at Jing Yuetan Park in a beautiful sunny day. A total of thirty-three papers covering five major topics were received and published in the conference proceedings.

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