

The OPTICAL SOCIETY OF CHICAGO MEETING ANNOUNCEMENT

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PLEASE POST

FOUR CENTURIES OF IMAGING TECHNOLOGY

Speaker: Prof. William T. Rhodes, Dept. of Computer & Electrical Engineering and Computer Science, Florida Atlantic University.

WHEN: **THURSDAY** – March 3, 2011



WHERE: Des Plaines Public Library, Meeting Room A
1501 Ellinwood Street, Des Plaines, IL 60016
(847)827-5551

RESERVATION: Email *Shu-i.Wang@cmcelectronics.us*
Provide name, affiliation, email/phone, dinner attendance

Program Schedule
5-6:45pm Dinner Social
7pm Lecture

Pre-lecture Dinner Social at: Mexico Restaurant
694 Lee street, Des Plaines, IL 60016 (1 block from Library)
(847)296-1611

Join us even if you can only attend part of the time slot.

FOUR CENTURIES OF IMAGING TECHNOLOGY

In the time of Galileo, imaging technology was limited to eyeglasses, magnifiers, and low-power aberration-limited telescopes. Four hundred years later, eye glasses have been perfected to the extent that they can now correct for high-order aberrations, the magnifier has been replaced by super-resolving nonlinear-optics microscopes, and large-aperture adaptive-optics telescopes are capable of near diffraction limited imaging through atmospheric turbulence. How these developments came about, along with developments in image recording and image transmission technologies, is the subject of this talk. In addition to technology advances, the importance of economic forces is discussed.

Dr. William T. Rhodes - is Emeritus Professor of Electrical Engineering at Georgia Institute of Technology and Professor of Computer & Electrical Engineering and Computer Science at Florida Atlantic University, where he heads that university's Imaging Technology Center. He is co-author of the textbook *Lasers and Their Applications* and is currently working to complete *Principles of Fourier Optics*. His research has been in the area of information optics with emphasis on optical imaging and imaging systems. Recently he has returned to his roots in research and is investigating a new method for high-resolution imaging through the turbulent atmosphere. He is a Fellow of the OSA and the SPIE and a former board member of both societies, the former editor-in-chief of *Applied Optics*, the current editor-in-chief of the Springer-Verlag Optical Sciences Series of monographs, and the editor-in-chief of the new on-line journal of review, *SPIE Reviews*.

Upcoming Events: 2/26/11 – Engineering Week IIT Rice Campus; 3/9/11 – Westchester Middle School Science Evening; 3/12/11 – S. Suburban Regional Student Science Fair; 3/14/11 – Oswego Middle School Science Evening; 3/19/11 – N. Suburban Regional Student Science Fair; 3/25/11 – Chicago Public Schools Student Science Fair; 4/13/11 – Fermilab STEM Career Expo; 4/14/11 – Argonne Science Career in Search of Women Conference; 10/8/11– Family Science Expo. Des Plaines Public Library.