



## **IEEE NEWS FOR MARCH 2008**

**Jacob Z. Schanker, P.E., Newsletter Chair**

**E-mail: [j.schanker@ieee.org](mailto:j.schanker@ieee.org)**

**Rochester IEEE home page at: <http://www.r1.ieee.org/~roch>**

**(Always check the web PDF edition for late changes and additions)**

### **Rochester Section Meeting Tuesday, March 4, 2008**

The next Rochester Section business meeting is on Tuesday, March 4, 2008 at Noon, at the Shanghai Restaurant, 2920 West Henrietta Road, just south of the intersection with Brighton-Henrietta Town Line Road. All IEEE members are welcome to attend this meeting, meet your officers and have lunch for just \$3.00.

### **Signal Processing Society Chapter Officers for 2008**

Chair: John C. Handley, Xerox Research Center Webster

Vice Chair: Vishal Monga, Xerox Research Center Webster

Treasurer: David J. Coumou, MKS Instruments

Secretary: Andrew C. Gallagher, Eastman Kodak Research Labs

### **2008 IEEE Rochester Joint Chapters Meeting will be on May 1**

The annual IEEE Joint Chapters Meeting will take place at the RIT Inn & Conference Center on Thursday, May 1, 2008 beginning at 5:30 PM. Mark this date down. The keynote speaker will be Dr. Ching W. Tang, Doris Johns Cherry Professor of Chemical Engineering, Chemistry and Physics at the University of Rochester. Dr. Tang's talk will be on "The Development of OLED Displays". Prior to the keynote address, there are expected to be five concurrent technical presentations.

## **Geoscience and Remote Sensing Society WNY Chapter**

The IEEE Geoscience and Remote Sensing Society Western New York Chapter and the American Society for Photogrammetry and Remote Sensing Central New York Region will be jointly presenting a technical seminar on Tuesday, March 11, 2008

The featured speaker is Stephen Schultz, Chief Technology Officer, Pictometry International Corp. The event will be held at Pictometry International, 100 Town Centre Dr, Suite A, Rochester, NY 14623. This is off Calkins Rd., just east of West Henrietta Rd. (Rt 15) in the Town of Henrietta).

Pizza and soda provided at 5:30 PM with Meeting and Presentation at 6 PM.

**Abstract:** Pictometry's oblique metric image capture and processing system can produce over one- million images a day and has captured 70% of the populated United States in the past two years. Many unique technical challenges had to be overcome to achieve these numbers and still more lie ahead. This talk will discuss some of the major hurdles solved, both hardware and software, and some that are still being solved. Specific topics discussed will include camera and lens design, demosaic algorithms, and specular reflection color balancing issues.

**Speaker Biography:** Stephen L. Schultz, Chief Technical Officer and co-founder of Pictometry International, provided the original concept and design of the company's software (Electronic Field Study), image capture, and processing technologies. He oversees and is responsible for all the technological output of Pictometry.

Formerly working at the Chester F. Carlson Center for Imaging Science at RIT, Mr. Schultz has worked in imaging science since 1984, and has been designing and engineering software systems since 1978. His specialties include direct geo-registration, remote sensing, synthetic image generation, frequency domain processing, irradiance calculations, and automated flight planning.

Mr. Schultz earned a Bachelor of Science in Computer Software Science from RIT, and later completed his coursework for a Master of Science in Computational Imaging Science. In 2007, RIT honored Mr. Schultz by naming him the Distinguished Alumnus for the B. Thomas Golisano College of Computing and Information Sciences.

## **Geoscience and Remote Sensing Society April 4 Meeting**

**Title:** Urban Land Use Classification from Contemporary Remote Sensing

**Speaker:** Prof. Le Wang, Department of Geography, University at Buffalo,  
The State University of New York

**Date:** Friday, April 4, 2008

**Time:** 3:15 - 4:15 PM

**Location,** Wilkerson 145H (inside the Geographic Information and Analysis  
Lab) at the University at Buffalo

Updated information will be available on the chapter web site:

[http://ewh.ieee.org/r1/new\\_york/grss/](http://ewh.ieee.org/r1/new_york/grss/).

### **News from the IEEE**

IEEE.tv has produced an "Energy Innovations" series of programs that explore how solar, renewable and coal energy are being implemented to meet growing energy needs. All three videos in the Energy Innovations series will be available free to the viewing public. The first program, "The Hydrogen House," profiles Mike Stritzki, an engineer who designed and built a house run entirely by solar energy. "The Hydrogen House" can currently be viewed at <http://www.ieee.org/ieeetv>. The other programs, "Solar Goes Small" and "Schwartz Pump: Re-imagining Coal Power" will be added at a later date.

Full descriptions of the upcoming programs appear below:

"Solar Goes Small" - profiles an American group building a solar panel manufacturing plant in Cardiff, Wales. This plant will be the first facility that makes renewable energy products using only renewable energy. In addition to generating power from "traditional" solar sources, the panels made in the Cardiff facility will also generate power from indoor lighting and moonlight.

"Schwartz Pump: Re-imagining Coal Power" - outlines the anticipated coal depletion and the steps being taken to maximize the current reserves. Located near the Polish/Czech border in former East Germany, the Schwartz Pump is a massive power plant with boilers over 160 meters high. A new plant is under construction which will generate efficient, nearly clean power from coal, the first power plant to attempt such a feat.

### **IEEE Mission and Vision Updated as Part of IEEE Envisioned Future**

As part of the "IEEE Envisioned Future", a synopsis of the new enterprise-wide, long-range strategic plan that was approved by the IEEE Board of Directors in June 2007, the IEEE mission and vision have been updated. The "IEEE Envisioned Future" is based on the balance between the timeless principles of IEEE and what IEEE seeks to become within 10 to 30 years.

The updated IEEE mission and vision, as well as more details about the IEEE Envisioned Future can be viewed at

<http://www.ieee.org/web/aboutus/visionmission.html>.