



IEEE NEWS FOR NOVEMBER 2008

Jacob Z. Schanker, P.E., Newsletter Chair
Rochester IEEE home page at: <http://www.r1.ieee.org/~roch>

In Memoriam
Kenneth A. Arnold



Ken Arnold, who many of you will recall was our Rochester Section Chair in both 2005 and 2006, passed away suddenly on October 1, 2008 at the age of 51. An IEEE member for thirty years, Ken was recently elevated to Senior Member.

In addition to Section Chair, Ken held numerous volunteer positions in the IEEE. He served as Chair of the Rochester Chapter of the Computer Society, as Rochester Section Treasurer, as a member of the Nominations Committee, and most recently as the 2007 Western Area Chair for Region 1 of the IEEE.

Ken held a B.S. in Electrical Engineering from R.I.T. and a M.S. in Computer Engineering from R.P.I.

In addition to his professional activities with the IEEE, Ken was also active in several community and church groups

Ken leaves behind his wife, Jann Armantrout, and sons Christopher and Gregory Arnold.

Ken's enthusiastic, outgoing, presence at our meetings will surely be missed.

Rochester Section Meeting Tuesday, November 4, 2008

The next Rochester Section business meeting is on Tuesday, November 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.

32nd Annual EDS/CAS Conference Wednesday November 5, 2008

The focus of this conference is to bring engineers and researchers together to share information on a wide variety of topics related to microelectronic devices and systems, allowing one to become acquainted with others of similar interest in nearby locations. This year the conference will be held on Wednesday, November 5 at R.I.T. The conference begins with a morning workshop at 8 AM. Oral presentations begin at 11AM, including two invited talks and six contributed talks. There will be a noon lunch, and an afternoon coffee break. A poster session reception will follow the contributed talks. See the conference website listed below for the latest updated information.

See the full announcement at the end of this newsletter, and visit the conference website for current details at: <http://www.rit.edu/kgcoe/ue/eds.php>

IEEE NY Workshop on Communications, Sensors, and Networking

CANCELED

The IEEE NY Workshop on Communications, Sensors, and Networking '08 will be held on Friday, November 21, 2008 from 8:30 AM to 5:00 PM in the Golisano Auditorium at the Rochester Institute of Technology. This is the fourth such annual event.

Distinguished speakers will be presenting morning and afternoon sessions with topics covering research and application of emerging communications technology to an audience representing academic, commercial and government interests from New York.

See the workshop web page at http://ewh.ieee.org/r1/rochester/comm_aero/workshop/ for current details and registration information.

Computer Society October 30 Meeting

The Rochester Chapter of the IEEE Computer Society is pleased to announce that John Harauz will be speaking on Engineering Considerations in the System Lifecycle: Standards and Hazards Analysis.

Time: 6 PM

Date: October 30, 2008

Place: RIT, Building 70 (Golisano College), room 2400

Abstract:

Developing safety-critical systems containing software is an inherently risky proposition. A safety case is usually required to present a clear, comprehensive and defensible argument that a system including software is acceptably safe to operate in a particular context. Software alone is not a safety issue; it is only an issue in the context of the larger system. Safety is achieved by reducing risk to a tolerable level through an iterative process of risk assessment and risk reduction (hazards analysis). Hazard identification begins with preliminary hazards analysis as early as the conceptual development of the system and continues through the development lifecycle. There are many techniques to support hazards analysis; some of the most commonly used being Fault Tree Analysis and Failure Mode and Effect Analysis, which are also applicable to software.

This presentation will specifically address:

- what a safety case is
- how risk management and hazards analysis fit into a system development life-cycle
- the hazards analysis process and supporting hazards techniques
- limitations of the software development process
- planning issues for safety-critical system development
- the latest International IEEE standards and sector-specific standards applicable to safety-related software, including
 - ISO 14971:2005 Medical Devices - Application of risk management to medical devices
 - IEC 62304:2006 Medical device software – Software life cycle processes).

John Harauz is an internationally recognized authority on system engineering and software engineering standards for safety-related computer systems, including the regulatory licensing of such systems. He belongs to the Computer Society Standards Activities Board and the Professional Practices Committee, serves as column editor of the Computer Magazine Standards Column, and on the editorial committee for “IEEE Security and Privacy, Building Dependability Reliability and Trust”. John is a founding member of the new Technical Committee on Safety of Systems under the IEEE Systems Council. He is currently organizing the Second IEEE International Workshop on Safety of Systems (IWSS’08), which is to be held as an integral part of the International Conference on Prognostics and Health Management 2008 (PHM08) sponsored by the IEEE Reliability Society.

MEETING ANNOUNCEMENT & CALL FOR ABSTRACTS

*32nd Annual EDS/CAS
Activities in Western New York Conference
1:00PM, Wednesday, November 5, 2008*

*Xerox Auditorium, Gleason Building
Rochester Institute of Technology
Rochester, NY*

The focus of this conference is to bring engineers and researchers together to share information on a wide variety of topics related to microelectronic devices and systems, allowing one to become acquainted with others of similar interest in nearby locations. This year the conference will be held at RIT, following an IEEE officers' luncheon. Oral presentations begin at 1PM, including one invited talk and six contributed talks. There will be an afternoon coffee break, and a poster session reception will immediately follow the "Flash Nano" talks by the poster presenters. **See the conference website listed below for the latest updated information.**

Call for Abstracts:

There is still time to submit an abstract for a contributed talk, and plenty of room for poster presentations. Those that submit a poster will give a brief 1-slide / 1-minute summary during the "Flash Nano" session immediately before the reception. Abstracts must be received by October 24th. Submission can be done electronically via email to kdhemc@rit.edu using MS-Word or pdf formats.

Invited Speaker: *(see our website for bio & abstract)*

This year our invited speaker is Dr. H. Rusty Harris who is currently an AMD assignee at SEMATECH in Austin, TX. Dr. Harris is a manager of a team working on the development of Non-Planar CMOS, which may be needed as early as within the next 3-5 years to address scaling challenges.

Registration:

Please see the website listed below for the conference registration and the latest agenda updates! Pre-registration is greatly appreciated, and is required for the IEEE officers' lunch.

EDS Conference Chair: Dr. Karl D. Hirschman
Microelectronic Engineering Department
Rochester Institute of Technology
Ph. 585-475-5130

Visit our EDS website at: <http://www.rit.edu/kgcoe/ue/eds.php>