



**REGISTRATION INFORMATION**  
**The 2010 Meeting of**  
**THE TEXAS SOCIETY FOR MICROSCOPY**  
**“Embracing All Forms of Microscopy”**

**Meeting Dates: April 15-17, 2010**  
**First Call for Papers**

**Registration Information**

What's Included:

- Student Microscopy Workshop
- Guest Speakers
- Vendor Exhibits
- Platform Presentations
- Poster Sessions
- Friday Luncheon

**Advance Meeting Registration**

Deadline: April 2, 2010. Advance registration is strongly suggested to afford TSM an accurate participant count for event organization.

Please use the appropriate registration forms and return with your payment to:

Alice Stacey, Treasurer, TSM  
1401 Spyglass Drive Texas Woman's University  
Mansfield, TX 76063  
Email: [alicastacey@charter.net](mailto:alicastacey@charter.net)  
MAKE CHECKS PAYABLE TO THE TEXAS SOCIETY FOR MICROSCOPY

**Lodging Information:**

- Hilton Garden Inn, 7550 Gaylord Parkway, Frisco, TX 75034
- (469)362-8485 Fax (469)362-8487
- Web site: [hiltongardeninn.hilton.com/en/gi/hotels/index.jhtml?ctyhocn=DFWFRGI](http://hiltongardeninn.hilton.com/en/gi/hotels/index.jhtml?ctyhocn=DFWFRGI)
- RATE: \$109.00 per night
- Mention that you are with the Texas Society for Microscopy when making your reservations.
- HOTEL RESERVATION DEADLINE: Thursday, March 25, 2010
- After this date reservations will be accepted on a space and rate availability basis only, convention rates are not guaranteed.
- Room rate includes breakfast. Participants not staying in the hotel may eat breakfast at the reduced rate of \$5.95. **Continental breakfast will not be served in the meeting area.**

### Abstract Submission

- Abstracts must be received by: **March 15, 2010**
- Please indicate at the time of submission if platform or poster presentation as well as if the topic is related to biological or materials science.
- An abstract submission form must be included with the abstract. The form can be found on the TSM website. <http://www.texasmicroscopy.org>
- If you submit an abstract you will be scheduled to speak on either Friday, April 16 or Saturday, April 17. If you have a conflict with one of these days, consideration will be given to your needs if indicated on the submission form. Otherwise, you will be expected to speak at the time scheduled by the program chair.
- If you are participating in the **student competition**, this must be noted on the abstract at the time of submission.

Mail abstracts to:

Camelia Maier, Ph.D.

Department of Biology

Texas Woman's University

Denton, Texas 76204-5799

Phone: (940) 898-2358

Email: [cmaier@twu.edu](mailto:cmaier@twu.edu)

### Invited Speakers

Lee Hughes is an assistant professor in the Department of Biological Sciences at the University of North Texas. He earned his Ph.D. in 1998 from UNT and has been employed by the department since 2000. Dr. Hughes conducts research in microbiology and undergraduate science education. He co-directs the HHMI-sponsored phage hunter laboratory course for freshman biology majors.

**TITLE: Freshman Phage Hunters: Integrating a Research-based Experience into Freshman Biology for Majors**

**BRIEF ABSTRACT:** The National Genomics Research Initiative (NGRI) is year-long, classroom-based research experience for university freshmen. The NGRI is the first initiative of the Howard Hughes Medical Institute's (HHMI) Science Education Alliance (SEA). The University of North Texas (UNT) is one of 12 universities that joined the SEA in 2009. Students in the course each isolate and characterize a novel mycobacteriophage, as well as participate in the annotation of one student's phage genome.

**Dr. Puligandla Viswanadham** recently retired from Nokia Research Center, Irving Texas as Principal Scientist and was involved in second level electronic packaging that included reworkable underfills, chip scale packaging, lead(Pb)- free solders and reliability investigations. Prior to joining Nokia he worked as Senior Member of the Technical Staff at Raytheon TI Systems and Texas Instruments and was involved in the Ball Grid Array and Chip Scale Package technology assembly development and implementation, and at IBM as an Advisory Scientist in Rochester MN, Endicott N.Y. and Austin Texas facilities. At IBM Viswanadham was involved in the process development and qualification of Surface laminar Circuitry, Assembly and Reliability of Fine Pitch Quad Flat Packs, Thin Small Outline Packages, Tape Automated Bonding, and Area Array technologies. Also, while at IBM Austin he was manager of site Analytical Laboratories during 1989-90. As a member of the Materials and Process Engineering group at IBM Rochester Viswanadham was involved in corrosion studies, analytical methods development, plating studies and contamination control. Prior to joining IBM, his research activities included high temperature chemistry and thermodynamics of binary and ternary chalcogenides, atomic absorption, slag-seed equilibria in coal fired magneto-hydrodynamics energy generation, and astrophysics. During 1959-68 he worked as Senior Research Assistant at the Astrophysical Observatory and India Meteorological Department.

Viswanadham authored or co-authored well over 130 technical publications in journals, symposium proceedings and trade magazines. He is the co-author of the book titled Failure Modes and Mechanisms in Electronic Packages published by Chapman and Hall in 1998. He also authored or coauthored nine book chapters in the areas of microelectronic packaging, fine pitch surface mount technology, ball grid array technology, chip scale packaging, corrosion in microelectronics, reliability of portable electronics, etc. He received the First, Second and Third plateau IBM invention achievement awards for several of his patents and invention disclosures, and an IBM excellence award. He also received fourth level IBM Technical Author Recognition Award for his publications. During 1974-78 he was on the faculty of Ohio Dominican College Columbus, OH as Assistant Professor and taught chemistry, and physics.



Puligandla Viswanadham has a PhD degree in Chemistry from University of Toledo, Toledo, OH, an M.Sc., degree in chemistry from Saugor University, Saugor, India, and a B.Sc., degree in chemistry from Sri Venkateswara University, India.

He is a member of the Surface Mount Technology association and served as a member of Board of Directors, Technical Committee, and is currently on the journal review committee. He has given several professional development courses and tutorials at SMTA, IPC, and IMAPS technical conferences

His current institutional affiliation is Mechanical and Aerospace engineering, University of Texas at Arlington Texas as an adjunct staff teaching Failure Modes and Mechanisms in Electronic Packages and Chip Scale packaging. He is also currently involved in the preparation of a book on the fundamentals and essentials of electronic packaging.

**TITLE: Failure Analysis Strategies in Electronics Industry - Past, Present and Future**