

Susquehanna Valley Section  
American Chemical Society

Annual  
Education Awards  
Banquet



Wednesday, May 4, 2005 , 6:00 p.m.  
Kehr Union Building, Room 408  
Bloomsburg University,  
Bloomsburg, PA

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# Program

- I. **Welcome** . . . . . *Dr. Deborah Hokien, Chair*
- II. **50-Year ACS Member** . . . . . *Dr. Deborah Hokien*  
MR. R.W. DINGMAN
- III. **Joseph Priestley Service Award** . . . . . *Dr. Timothy Strein*  
DR. JAMES J. BOHNING, Visiting Research Scientist, Lehigh  
University
- IV. **Outstanding High School Teacher Award** . . . . *Mr. Ronald Blatchley*  
MR. EDWARD KELLEY, Williamsport Area High School
- V. **David H. Frederick Memorial Awards in High School  
Chemistry** . . . . . *Dr. Greg Zimmerman*

## Advanced Exam Awards

MICHAEL COOLBAUGH	Wyoming Area High School Teacher – Eileen Palmer
PAUL DENNEHY	Danville Area High School Teacher – Deb Slattery

## First Year Exam Awards

MATT JONES	Mifflinburg Area High School Teacher – Brian Landis
AMHA HARRISON	Williamsport Area High School Teacher – Ed Kelley
JOSEPH RUZBARSKI	Scranton Preparatory School Teacher – Jane Nagurney
MICHAEL ADELMAN	Abington Heights High School Teacher – Carolyn Siwak
KEVIN MUSTO	Pittston Area Sr. High School Teacher – James Timlin
ANTHONY ORLANDO	Mining & Mechanical Institute Dr. David Stiller

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## Honorable Mention

ELIZABETH SHENK	Lewisburg Area High School Teacher – Jennifer Kelly
HEATHER WETZEL	Line Mountain Senior High School Teacher – Shelly Herb
ZANE BOWER	Jersey Shore Senior High School Teacher – Ralph Smith
ERIKA FISCHER	Jersey Shore Senior High School Teacher – Ralph Smith
HYE M. KANG	Hughesville High School Teacher – John Capwell
ADAM SHANER	Hughesville High School Teacher – John Capwell
ANTHONY BONIFONTE	Hanover Area High School Teacher – Jocelyn Holodick
MATTHEW LONG	Danville Area High School Teacher – Deb Slattery
DARIEN PEREZ	Danville Area High School Teacher – Deb Slattery

### VI. International Chemistry Olympiad Entrants. . *Dr. Amy Bradley*

JOSEPH J. RUZBARSKY	Scranton Preparatory School Teacher: Ms. Jane Nagurney
DANIEL M. JACKOWITZ	Scranton Preparatory School Teacher: Ms. Jane Nagurney
MICHAEL COOLBAUGH, JR.	Wyoming Area High School Teacher: Eileen Palmer

### VII. College Award Winners . . . . . *Dr. Terese Wignot*

JAISEN D. LEFFLER	Bloomsburg University
CHRISTINE HEBLING	Bucknell University
JESSICA JENKINS	King's College
DYLAN E. DUPUIS	Lycoming College
KATIE TERRANA	Scranton University
PAUL SARNOSKI	Wilkes University
JENNIFER ANN MARTIN	College Misericordia

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## VIII. "Large CVD-Grown Diamond Crystals: Changing the Way the World Uses Diamonds"

*Dr. Robert Linares, Chairman-Board of Trustees and Chief Technical Office, Apollo Diamond*

**Abstract:** Diamond is one of the most amazing crystalline materials, having extreme properties such as hardness, thermal conductivity, breakdown voltage, velocity of sound, hardness, index of refraction and optical semiconducting. Because of the high cost and variable properties of natural diamond, it has not been possible to take advantage of most of these properties in practical devices. It is now possible to grow diamond crystals by the Chemical Vapor Deposition method (CVD) which are large enough for semiconductor, optical, mechanical, medical, gem and many other applications. The talk will describe CVD diamond growth and new applications using large diamond crystals.

Dr. Linares received his BS (Chemistry) and MBA (Marketing) from Farleigh Dickinson and a Ph.D. (Materials Science) from Rutgers University. He began his career at Bell Telephone Labs conducting research on solid state lasers and magnetic materials. He spent several years at Perkin Elmer, Allied Chemical and MACOM doing research and manufacturing spectroscopy, magnetic films, and gallium arsenide semiconductors. He started two companies, the first Spectrum Technology which produced GaAs semiconductor wafers and the second, Apollo Diamond which produces diamond crystals. He has published over 100 papers in technical and industrial journals and holds many key patents. His current company, Apollo Diamond, has been written about *Nature*, *Wired* and *Newsweek*.

### 2005 ACS Susquehanna Valley Section Officers

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The American Chemical Society is a nonprofit scientific and educational association of professional chemists and chemical engineers. Although the Society is primarily an American organization, virtually every nation is represented among its nearly 160,000 members.

The programs of the Society include meetings, publications, education, awards, and public service activities, including National Chemistry Week. 1500 ACS meetings are held each year at the local, regional, national, and divisional levels. Over twenty ACS journals are the leading resources in the chemical field. Educational activities include services to high school and college chemistry students and continuing education programs for its members. The Society presents numerous awards for outstanding achievement in various fields of chemistry through national, regional, divisional, and local channels. Fellowships and research grants for basic research are administered by the society.

The Susquehanna Valley Section of the ACS includes members from eight counties in central to northeastern Pennsylvania and will co-host the 2006 Middle Atlantic Regional Meeting (MARM) in Hershey, PA, June 4-7, 2006.