

The Blue Ridge Chemist

The Blue Ridge Chemist, since 1947 the
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Virginia Blue Ridge Section, American Chemical Society



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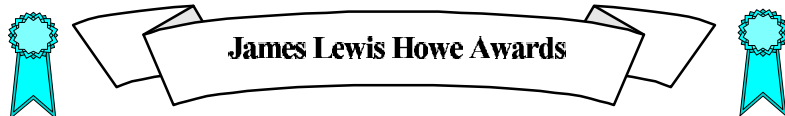
No. 4



High School Teacher Appreciation



Outstanding High School Teacher



James Lewis Howe Awards



Undergraduate/High School Posters

Radford University Hosts April Meeting

<http://membership.acs.org/v/vbr>

VIRGINIA BLUE RIDGE SECTION AMERICAN CHEMICAL SOCIETY

608th SECTION MEETING
Hosted by Radford University
Wednesday, April 25, 2007

PROGRAM:

5:00-5:30	Students setup posters on posterboards
5:30-6:30	Social Hour/Poster Session
6:30-7:30	Dinner
7:30-	Meeting and Awards

The social hour, dinner, and meeting will take place in the Heth Ballroom at Radford University. The program, titled "Chemistry - It's Awesome, But It's Not Magic", will feature Steve Smith as the demonstrator.

Dinner will consist of tossed salad with choice of dressings, marinated London Broil with bordelaise sauce, grilled marinated chicken breast, smashed seasoned red skin potatoes, roasted fresh vegetable medley, seasoned green beans, double chocolate torte cake, bread, iced tea, decaffeinated coffee, and regular coffee. Vegetarian dinners are available upon request when the dinner reservations are made. Dinner is \$14. Students and retired members are half price. Poster presenters receive a free meal. High school teachers are guests of the section with a complementary meal for themselves and a companion.

Reservations for the dinner must be made by WEDNESDAY, APRIL 18 by calling Chris Hermann at 540-831-5413 or by email to chermann@radford.edu, or regular mail to Department of Chemistry and Physics, Radford University, Radford, VA 24142. Please note the parking arrangements and permit on page 14.

Steve Smith will receive the Outstanding High School Teacher award and the students listed below will receive the James Lewis Howe award.

Steve Smith
Roanoke Valley Governor's School

For the past five years Mr. Smith has taught chemistry, botany, and forensic science at the Roanoke Valley Governor's School. Before that he taught for ten years at high schools in Maryland and Pennsylvania. He received his BS degree (in Microbiology) from the University of Maryland in 1980, and his Master of Arts in Teaching from the University of Pittsburgh in 1992. In between degrees he worked for ten years as an electron microscopist, first for the Naval Research Lab and later for Alcoa, during which time he was the author or coauthor of ten published papers.



He strongly believes in the power of labs and demonstrations to capture students' interest and illustrate chemical concepts. He has presented talks and posters at several ChemEd and BCCE conferences. His most recent presentation was at the 2005 ChemEd conference in Vancouver, BC, where he performed "Labs and Demos to Get and Keep Your Students' Interest" for more than 130 people. Last November he was honored by the Virginia Association of Science Teachers as the Outstanding Chemistry Teacher for 2006.

And he likes to blow things up...



James Lewis Howe Awardees

We are again pleased to be able to honor the outstanding students who are majoring in an area of chemistry in the Colleges and Universities in the Virginia Blue Ridge Local Section. These students are listed below.

Daniel Puckett
Concord University

HOMETOWN: Paynesville, WV

ANTICIPATED DEGREE:
B.S. in Chemistry and Biology

AWARDS AND MEMBERSHIPS:
APhA member
Student Affiliate of the American Chemical Society (President)
CPhT n Nationally Certified Pharmacy Technician
State President of Gamma Beta Phi National Honor Society

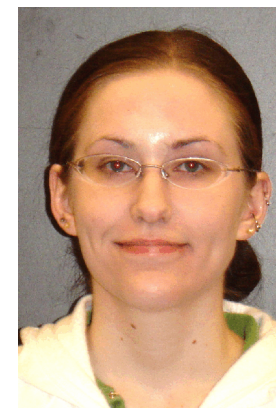


Robin Leigh Mizzell
Hollins University

HOMETOWN: Montclair, VA

ANTICIPATED DEGREE:
B.A. in Chemistry

AWARDS AND MEMBERSHIPS:
National College Honors Society
Dean's List
Judith Gregory Smith Award for Excellence in Natural Sciences



Sarah Zimmermann

Lynchburg College

HOMETOWN: Bedford, VA

ANTICIPATED DEGREE:

B.S. in Chemistry

AWARDS AND MEMBERSHIPS:

Iota Sigma Pi

Phi Kappa Eta

Omicron Delta Kappa

Student Affiliate of the American Chemical Society (President)



Julia Danielle Bishop

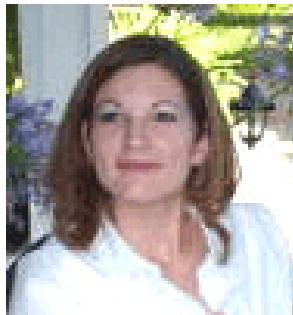
Ferrum College

HOMETOWN: California

ANTICIPATED DEGREE:

B.S. in Chemistry, Teacher Education
minor

AWARDS AND MEMBERSHIPS:



Rebecca Lenn Damron

Radford University

HOMETOWN: Pulaski, VA

ANTICIPATED DEGREE:

B.S. in Chemistry and Biology

AWARDS AND MEMBERSHIPS:

Student Representative on Chemistry Faculty Search Committee



Mandy Strutner

Roanoke College

HOMETOWN: Gate City, VA

ANTICIPATED DEGREE:

B.S. in Biochemistry

AWARDS AND MEMBERSHIPS:

Phi Beta Kappa

Dean's List

Phi Lambda Upsilon

Iota Sigma Pi

Alpha Chi

Honors Program

David Bittle Scholarship

Tri-Beta

ACS Student Affiliate Award

Karen Adkisson Book Award

Student Affiliate of the American Chemical Society (treasurer)



Yo Miura

Washington and Lee University

HOMETOWN: Yokohama, Japan

ANTICIPATED DEGREE:

B.S. in Chemistry

AWARDS AND MEMBERSHIPS:

Omicron Delta Kappa

James Keith Shillington Scholarship

Mary Louise Reid WhiteScholarship in Chemistry



Erica Kennedy

Sweet Briar College

HOMETOWN: Chapmansboro, TN

ANTICIPATED DEGREE:

B.S. in Biochemistry and Molecular Biology

AWARDS AND MEMBERSHIPS:

Dean's List

Honors Summer Research Award recipient

Betty Bean Black Scholar

Lettie Whitehead Scholarship recipient

Iota Sigma Pi

Alpha Lambda Delta

Eta Sigma Phi

Zeta Upsilon



Hershel H. Lackey

Virginia Military Institute

HOMETOWN: Hickory, NC

ANTICIPATED DEGREE:

B.S. in Chemistry with Honors

AWARDS AND MEMBERSHIPS:

AFROTC scholarship

Dean's List

Academic Stars

Herbert E Ritchey Third Class Award

Leslie German Second Class Award in Analytical Chemistry

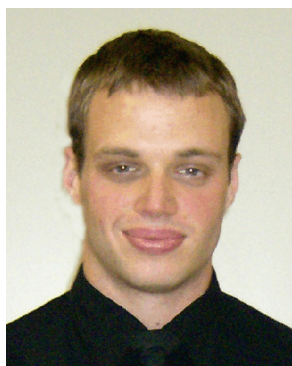
Larry L. Jackson '62 Undergraduate Research Award

Jackson Hope Undergraduate Research Grant

Student Affiliate of the American Chemical Society (secretary)

Miller Academic Center Tutor

Phi Kappa Phi



Justin Lemkul

Virginia Tech - Biochemistry

HOMETOWN: Manassas, VA

ANTICIPATED DEGREE:

B.S. in Biochemistry with Honors, Chemistry
Minor, Biotechnology Concentration

AWARDS AND MEMBERSHIPS:

Phi Beta Kappa

Engel Award Recipient

Dean's List

Alpha Chi Sigma (President, Professional Committee Chair, Reporter)

Biological and Life Sciences Learning Community

Honors Program



Lori Beth Bagby

Virginia Tech - Chemistry

HOMETOWN: Powhatan, VA

ANTICIPATED DEGREE:

B. S. in Chemistry

AWARDS AND MEMBERSHIPS:

Dean's List

James F. Powell Scholarship

Charles B. Walker Scholarship

John and Sarah Harvie Scholarship

Dr. Robin Dale Kinser Scholarship

National Starch Scholarship

Chemical (Chemistry Department) Scholarship

Blue Ridge Rubber Company (College of Science) Scholarship

Phi Kappa Phi

Student Affiliate of the American Chemical Society



Sarah M. Huffer

Virginia Tech - Chemical Engineering



HOMETOWN: Churchville, VA

ANTICIPATED DEGREE:

B.S. in Chemical Engineering

AWARDS AND MEMBERSHIPS:

Gerhard H. Beyer Scholarship

James K. Anderson Scholarship

R. H. Bogle Scholarship

Undergraduate Research Summer

Undergraduate Research Program (SURP), Virginia Tech

Omega Chi Epsilon (President, Publicity Committee Co-chair)

Wesley Foundation (Secretary, Fundraising Committee Co-chair,
Service and Missions Committee Co-chair)

American Institute of Chemical Engineers

Women in Engineering Support Team (WEST) Mentor

Donald Cox Scholarship

Milliken Unit Operations Laboratory Scholarship

Dow Chemical Company Co-op Scholarship

Gilbert L & Lucille C Seay Scholarship

Marshall-Hahn Engineering Scholarship

Pamplin Leader Award

Dean's List

Virginia Space Grant Consortium Undergraduate Fellowship

Adhesive Manufacturers Scholarship

Bostik-Findley Scholarship

Sharpe Undergraduate Scholarship

National Starch Company Scholarship

Dr. James Lewis Howe

1859-1955

James Lewis Howe was for many years Professor of Chemistry and Head of the Department at Washington and Lee University. As one of the most distinguished chemists in the Blue Ridge Section, we have chosen to name our annual awards to outstanding students in his memory.

Dr. Howe was born in Newburyport, Massachusetts in 1859; this is the same year in which Svante Arrhenius was born, and during Dr. Howe's professional career he was to know many of the famous early chemists, such as Liebig, Wohler, Bunsen, and many others. He attended Amherst College, where he pursued his favorite subjects of chemistry, German, and religion. He was selected to deliver the graduation address on the subject of "The Scientific Method and Religion".

He earned his M.S. and Ph.D. degrees at the University of Gottingen, and published his first scientific papers on the subject of aromatic carbon chemistry. He then began an intensive literature search of the platinum metals, beginning a bibliography for which he was to become world famous. He decided that the most interesting and least known metal of the group was ruthenium.

In 1883 he married Henrietta Leavenworth Marvine of Scranton, Pennsylvania. This marked the beginning of a marriage of 60 years duration. The Howes became the parents of two daughters and a son (who was also a chemist). After Mrs. Howe's death in 1944, one of his daughters, Guendolen Howe, became her father's constant companion.

Dr. Howe's teaching career began at Brooks Military Academy in Cleveland, Ohio. From there he went to Central University in Richmond, Kentucky, where he was Professor of Chemistry (and later Physics and Geology as well). In 1894 he accepted the Chair of Chemistry at Washington and Lee University, and for almost half a century he was at that institution.

It was here that he began his intensive bibliographic study of the platinum group and his outstanding research on the element ruthenium. In 1917 he

was appointed chairman of a special subcommittee on platinum of the National Research Council. His work led to the development of platinum alloys, and averted a potentially crucial shortage in platinum, threatening our efforts during World War I. He later received several presidential commissions dealing with the platinum metals.

Dr. Howe was beloved by his students and colleagues at W&L. For the first fifteen years he was a one-person department. His lectures were informal, but completely up to date. He was known for his extreme congeniality, charming personality, mild manner, and even temper. He was unceasingly helpful, and believed that more could be learned in the laboratory than from lectures.

Dr. Howe's unflagging energy found him serving in many capacities outside the scientific field. He was an Elder of the Lexington Presbyterian Church, an active Mason, and held positions in the Town Council in Lexington and the People's National Bank of Lexington.

Introduction to ChemInsight™

In response to the growing demand for scientific experts in the legal, accounting and consulting fields, ACS has launched ChemInsight™ – a scientific experts matching service – at the Chicago National Meeting.

Legal professionals often find themselves involved in litigation with scientific topics which a lay person would have difficulty understanding. They resolve this problem by hiring experts to assist in the understanding of scientific issues, make pre-trial preparations or provide testimony to persuade a jury during trial. In these roles, experts often play a critical role in determining the course and outcome of a case. Demand for experts is not limited to the legal domain. In the wake of the Sarbanes-Oxley Act of 2002, forensic accountants and consulting firms also seek experts to provide insights into the sciences, technologies, processes, and other areas with strong scientific content. As chemical and allied sciences increasingly

find their way into commercially successful products and services, the demand for scientific experts to help legal and other professionals is bound to increase.

Initially, ChemInsight™ plans to offer two services:

1. Directory Listing Service, which would promote experts through a free search on ChemInsight.org and through a free print directory distributed to more than 60,000 law, forensic accounting, and consulting firms;
2. Expert Matching Service, whereby ChemInsight™ would contract with law, accounting and consulting firms to conduct a customized search to identify the most relevant experts who best meet their needs.

By helping scientists in chemical and allied sciences gain access to opportunities beyond their core disciplines, ChemInsight™ would enable them to earn additional income and solve challenging problems in a new context, thereby enhancing their visibility beyond the scientific community. This would also help legal, consulting, and accounting firms solve the ever increasing number of cases and problems involving complex scientific topics.

If you have expertise in a relevant science area, ACS invites you to list with ChemInsight™. Listing with ChemInsight™ offers several advantages over other expert services in the market, such as:

- Exclusive focus on chemical and allied sciences – there is no other service that caters exclusively to these sciences
- Offered by the American Chemical Society – the world's largest scientific organization
- Lowest listing fees among comparable services
- Attractive member discounts on top of the already low listing fees
- Active promotion through the web and print media, including:
 - ? Custom-designed www.cheminsight.org website providing comprehensive search, registration, and profile editing capabilities
 - ? Direct access to 60,000 legal, accounting, and consulting professionals through the free distribution of the National Directory of Scientific Experts

- ? Multiple ACS websites that generate more than 110 million visitors annually
- ? Journals and magazines relating to intellectual property and several other relevant areas of law
- ? Premier legal websites and legal symposia/conferences
- ? Direct contacts and promotions to business consulting and forensic accounting firms with interest in the chemical enterprise
- ?

ChemInsight™ is a new initiative of the Office of New Business Development (NBD) of the Society. Thomas Smith serves as the Manager of ChemInsight™. For more information, please visit www.ChemInsight.org.

"Recycling All We Can"

The 2007 Community Event for Chemists Celebrate Earth Day is "Recycling All We Can". Celebrate the chemistry in recycling by sponsoring a recycling activity that will benefit the community. Provide recycling information at your event and document it with a photograph that you submit to ACS's Earth Day Flickr site at http://www.flickr.com/groups/acs_cced.



Regional Science Fair Winners of the VBRS Award

Each year the Virginia Blue Ridge Sections awards a \$50 US Savings Bond to the project selected as the best overall chemistry project at each of the two regional science fairs in its boundaries. This year's winners are listed below.

Rebecca Smith (North Side High School/Roanoke Valley Governor's School) was the winner of the VBRS award at the Western Virginia Regional Science Fair. Her project title was "Forged Paintings: a Chemical Analysis of Old and New Pigments."

W. Grant Beck (SW VA Governor's School/Pulaski County High School) was the winner of the VBRS award at the Blue Ridge Highlands Regional Science Fair. His project title was "The Verification of the Iodine Clock Reaction".

Parking at Radford University

The rules for parking at RU changed this last fall. Chris Hermann has been talking with parking services and will be e-mailing anyone that is a poster presenter, award winner, or has a dinner reservation, etc., a special flyer that is to be placed in your window for parking. If you park before 6:00 p.m., you could get a ticket if you don't have the sign.

Therefore, if you are a) coming to this meeting at Radford as a poster presenter, an award winner, or an attendee, b) are not associated with Radford University, and c) do not get a special parking flyer from Chris Hermann, please contact her. We don't want you to get a parking ticket. Also, if you or someone you know has submitted a poster and this submission has not been acknowledged by Chris Hermann, please contact her immediately. Somehow your information has not been received by her.

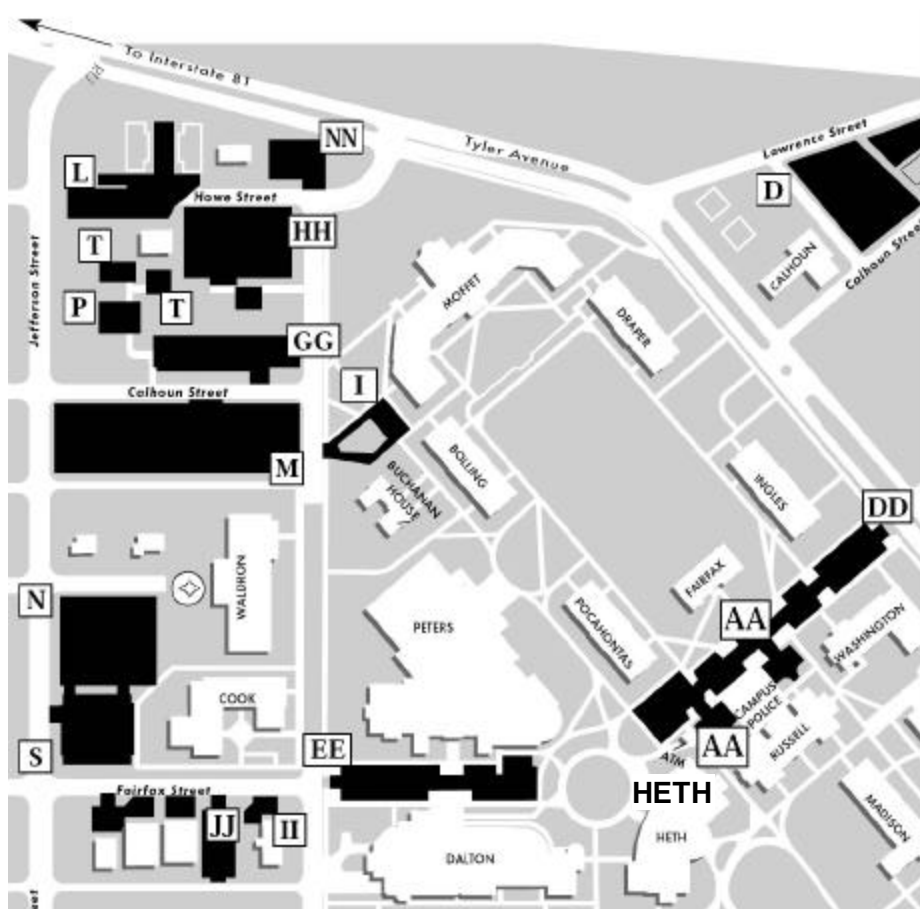
Directions to Radford University

Take I-81 to exit 109 and follow Route 177 approximately 3.5 miles to Radford University. Before the campus take a right onto Jefferson Street and find a parking lot with open space. All events will take place in the Heth Ballroom.

CAUTION: The parking rules at Radford have changed. Parking permits are required before 6:00. Please see the note above.

Map of Radford University

Adapted from Radford University Web Site



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U.S. Postage
PAID
Salem, VA 24153
Permit No. 31

THE BLUE RIDGE CHEMIST
Vern Miller, Editor
Roanoke College
Salem, VA 24153

The arrangements for the May meeting, which traditionally has been a tour, are incomplete. Look for the next edition of the Blue Ridge Chemist.