

The Blue Ridge Chemist

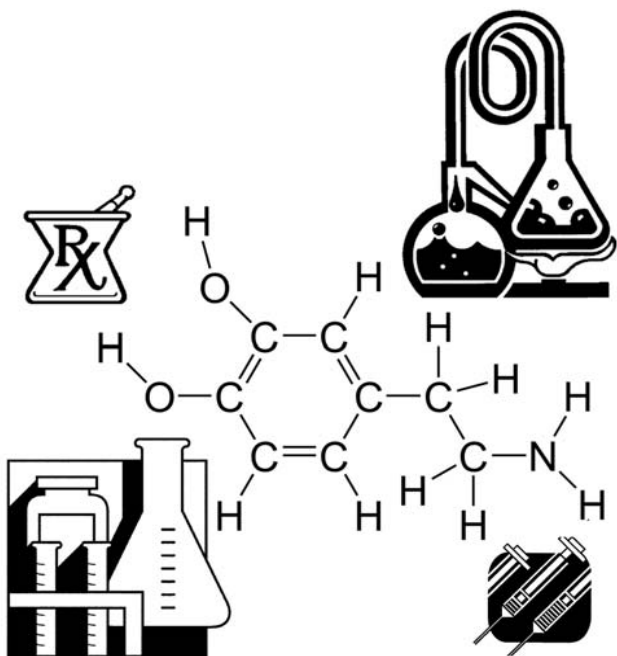
The Blue Ridge Chemist, since 1947 the
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Virginia Blue Ridge Section, American Chemical Society



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No. 4



Please note the quick reservation and meeting date.
Radford University hosts April Meeting

<http://www.acs-vbrs.org>

VIRGINIA BLUE RIDGE SECTION AMERICAN CHEMICAL SOCIETY

639th SECTION MEETING

Hosted by Radford University

Wednesday, April 6, 2011

PROGRAM:

5:30-6:30 Social Hour/Poster Session, Muse

6:30-7:30 Dinner, Muse Banquet Hall

7:30-8:30 Awards and talk, Muse Banquet Hall

All events will take place in Muse Banquet Hall, located in the basement of Muse Hall.

The buffet dinner will have an Asian theme - Szechwan chicken stir fry, beef and broccoli, egg drop soup, egg rolls, vegetable fried rice, lo mein noodles, Asian slaw, fortune cookies, sticky rolls, hot mustard, chili sauce, soy sauce, iced tea, and water. Special diets can be accommodated by mentioning it when the reservations are made.

Cost for the dinner is \$14.00, with students and retired ACS members being 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, MARCH 30, SEVEN DAYS** before the meeting, by phoning Chris Hermann at 540-831-5413, or by email to chermann@radford.edu. Please note that everyone needs to request a parking pass from Dr. Hermann when a poster is submitted or a dinner reservation is made.

Dr. Amy Hauck Newman
Deputy Scientific Director and Chief of the Medicinal
Chemistry Section at the National Institute on Drug
Abuse-Intramural Research Program (NIDA-IRP),
National Institutes of Health (NIH)

Amy H. Newton received her B.S. in Chemistry from Mary Washington College and her Ph.D. in Medicinal Chemistry from the Medical College of Virginia, Virginia Commonwealth University. Since then she has taken specialized courses in Neurochemistry, Recent Advances in Synthetic Organic Chemistry, Computer-Aided Molecular Design Course, Designing Drugs to Minimize or Maximize Exposure to the Brain, and leadership courses. She has done research at the Laboratory of Chemistry, NIDDK, National Institutes of Health; The American University; the Walter Reed Army Institute of Research; and the National Institutes of Health, National Institute on Drug Abuse, Intramural Research Program. In addition she has taken on the role of Acting Deputy Scientific Director, National Institute on Drug Abuse, Intramural Research Program.



Dr. Newman is on the editorial boards of five journals, is a journal reviewer for 15 journals, and has been grant and contract reviewer for six government and non-government agencies. She has various honors and awards and over 70 invited presentations, and has chaired ten symposia.

In the publication area she has over 170 articles in peer-reviewed journals and 15 invited reviews and book chapters. Additionally she has nine patents and patent applications.

Drug Design for Addiction - what's a nice girl like you
doing in a field like this?

Dr. Amy Hauck Newman, Deputy Scientific Director and Chief of the Medicinal Chemistry Section at the National Institute on Drug Abuse-Intramural Research Program (NIDA-IRP), National Institutes of Health (NIH), has spent her career designing molecules to study mechanisms underlying drug abuse and addiction. After receiving her Ph.D. in Medicinal Chemistry from the Medical College of Virginia, Virginia Commonwealth University she did post-doctoral studies in the laboratory of Dr. Kenner Rice, at the NIDDK, NIH, working on the total opiate synthesis of unnatural (+)-opiates. These opiates are not narcotic but have recently been shown to have anti-addictive properties in animal models. After a brief stint at the Walter Reed Army Institute of Research, she initiated a medicinal chemistry research program at the NIDA-IRP, focused on cocaine and dopaminergic mechanisms underlying its reinforcing actions that lead to its abuse. She is currently working on dopamine D3-receptor antagonists and partial agonists as well as atypical dopamine uptake inhibitors as medications to treat psychostimulant abuse and will highlight her research findings with anecdotal stories of the constant challenge to do cutting edge research in a controversial area while balancing family life.

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.

Megan Holcomb

Concord College

HOMETOWN: Beckley, WV

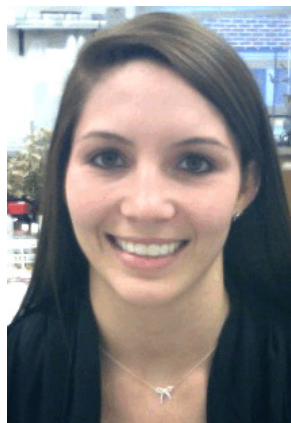
ANTICIPATED DEGREE: Chemistry
(pre-professional)

AWARDS, HONORS, AND
MEMBERSHIPS:

PROMISE scholar

Outstanding Student Athlete

National ACS Member



Deborah Clay

Lynchburg College

HOMETOWN: Evington, VA

ANTICIPATED DEGREE: B.A. in
Chemistry

AWARDS, HONORS, AND
MEMBERSHIPS:

Iota Sigma Pi

American Chemical Society



Terri Stacy

Radford University

HOMETOWN: Grundy, VA

ANTICIPATED DEGREE: B.S. in
Chemistry, Minor in Biology

AWARDS, HONORS, AND
MEMBERSHIPS:

Dean's List

Chemistry Club

Dr. Edna Warweg Speidel Memorial Scholarships in Chemistry



Alexandra VanDervort Sproul

Virginia Tech - Chemical Engineering

HOMETOWN: Frederick, MD

ANTICIPATED DEGREE: B.S. in
Chemical Engineering, minor in Chemistry

AWARDS, HONORS, AND
MEMBERSHIPS:

Dean's Scholarship

Dow Chemical Co-op Minority Scholarship

Dean's List with Distinction

SWE

AIChE

Department of Chemical Engineering Scholarships



James J. Stevenson
Virginia Military Institute

HOMETOWN: Gaithersburg, Maryland

ANTICIPATED DEGREE: B.S. in
Chemistry

**AWARDS, HONORS, AND
MEMBERSHIPS:**

Ralph Bowen Linville Award
Herbert Ritchey Third Class Award
Leslie German Second Class Award
Gottwald Scholarship recipient
Dean's List
Phi Kappa Phi
Gamma Sigma Epsilon honor society



Leah M. Heist
Virginia Tech - Chemistry

HOMETOWN: Fairfax, VA

ANTICIPATED DEGREE: B.S. in
Chemistry

**AWARDS, HONORS, AND
MEMBERSHIPS:**

Charles B. Walker scholarship
Dean's List
Alpha Chi Sigma
American Chemical Society
Walter B. Ellett scholarship
John B. and Susan Hopper Harvie scholarship
Department of Chemistry Academic Excellence Award
Chemistry Undergraduate Research Scholarship
"Outstanding Senior" in chemistry department



Allison Blumer
Virginia Tech - Biochemistry

HOMETOWN: Wexford, PA

ANTICIPATED DEGREE: B.S. in
Biochemistry

**AWARDS, HONORS, AND
MEMBERSHIPS:**

University Honors Program
Pre-Pharmacy Club
Gamma Beta Phi
Merck Future Talent Program
Stroobants Undergraduate Research Award



Poojan Pyakurel
Randolph College

HOMETOWN: Kathmandu, Nepal

**AWARDS, HONORS, AND
MEMBERSHIPS:**

Undergraduate Organic Chemistry Award
Dean's List
Member of Sigma Xi
Member of Psi Chi
President of the Pan World Club



Sydney Michelle Webb

Roanoke College

HOMETOWN: Hillsville, VA

ANTICIPATED DEGREE: B.S. in
Biochemistry with a Concentration in
Health Care Delivery

**AWARDS, HONORS, AND
MEMBERSHIPS:**

Phi Beta Kappa, National Honor Society
Alpha Epsilon Delta
National Health Care Honor Society
Alpha Chi, National Honor Society: Vice-President, President
Old Dominion Athletic Conference All Academic Team
Dean's List of Distinguished Students
Alpha Lambda Delta, National Freshman Honor Society
Research Experience University (REU) at Texas A&M University
in the Biochemistry Department
Undergraduate Research Assistants Program (URAP) Scholar
Virginia Foundation of Independent Colleges Summer Scholar
Fellowship



Melaina Macone

Sweet Briar College

HOMETOWN: Manalapan, NJ

ANTICIPATED DEGREE: B.S. in
Biochemistry and Molecular Biology,
Minor in Classical Studies

**AWARDS, HONORS, AND
MEMBERSHIPS:**

Presidential Volunteer Bronze Award
NCAA Academic Squad
Four scholarships for academic excellence and leadership abilities
Goldwater Scholarship Nominee
First Year Honors
Dean's List
Leadership Certificate
Omicron Delta Kappa
National Leadership Honor Society
Iota Sigma Pi National Honor Society in Chemistry
Alpha Delta Lambda
National Honor Society for First Year Students
American Chemical Society
Entomological Society of America
Honors Degree
Departmental Honors in Biochemistry.



Michael T. Kuntz

Washington and Lee University

HOMETOWN: Stafford, Virginia

ANTICIPATED DEGREE: B.S. in
Biochemistry (with minor in German)

AWARDS, HONORS, AND MEMBERSHIPS:

First Year Chemistry Achievement Award

James Keith Shillington Scholarship

B.S. Stephenson Scholarship (German)

Doctors Reid White Scholarship

Phi Beta Kappa

Omicron Delta Kappa

Johnson Opportunity Grant

ACS Student Affiliates Chapter



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.

19th Annual Undergraduate/High School Poster Session

The Virginia Blue Ridge Section of the American Chemical Society is sponsoring the nineteenth Annual Undergraduate/High School Poster Session as a part of the April 6, 2011 meeting at Radford University. Poster boards will be provided.

If you have a student or students who will be participating, submit the information below by email to Chris Hermann (chermann@radford.edu) by March 28, 2011. This is a firm deadline. No poster submissions will be accepted after this time. All students and faculty members will get email confirmation. If you do not get an email reply, then your submission was not received and you cannot present.

Name of Project: _____

Name(s) of Student(s): _____

Affiliation (name of high school, college, or university): _____

Class of Student(s) (freshman, sophomore, junior, senior): _____

Student(s) email address: _____

Advisor's Name, Address, Telephone Number, and email address:

Poster board (48" by 48") with tripod on table or just table will be provided. Please specify what you need.

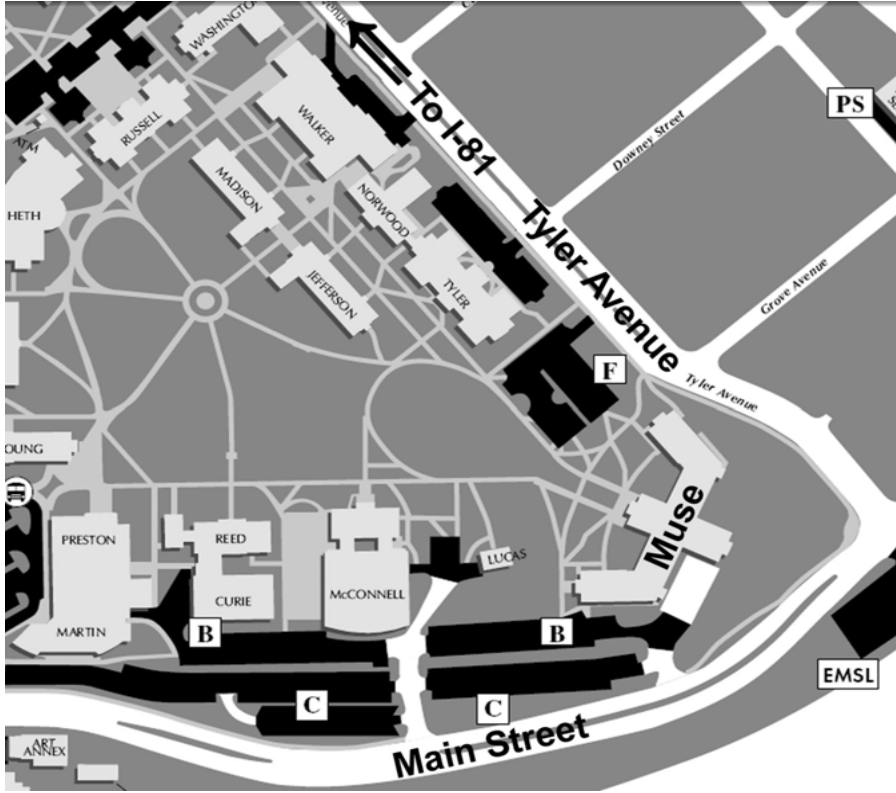
_____ poster board with tripod on table _____ only table

Directions for Radford University

Directions: Take I-81 to exit 109 and follow Route 177 (Tyler Ave) to Main Street. Go straight into the parking lot beside the bank or make a right, then another right and go into the parking lot. CAUTION: Parking permits are required before 6:00. A parking permit can be received by email from Chris Hermann.

Map of Radford University

Adapted from Radford University Web Site



Non-Prof. Org.
U.S. Postage
PAID
Salem, VA 24153
Permit No. 31

Vernon Miller, Editor
VA Blue Ridge Section, American Chemical Soc.
Chemistry Dept., Roanoke College
Salem, VA 24153-3789

Return Service Requested

The May meeting will be a tour. Details will be added to the April issue of the BRC when they become available. The contact person is Dwight Williams.