



# NEWSLETTER

Oklahoma Section

American Chemical Society

Volume 15 Number 1

<http://membersgip.acs.org/O/Oklahoma/Index.htm>

February 1, 2009

## Tinctures, Tonics, and Patent Medicines: A History of Commercialized Quackery

Friday – February 20, 2009  
Granny Had One Restaurant  
113 West Harrison Street  
Guthrie OK

***Dr. Ned Heindel***

Department of Chemistry/Health Sciences  
Lehigh University  
6 East Packer Avenue  
Bethlehem PA 18015-3172

**W**hile folk medicines and natural product derivatives have, in many cases, proven a fruitful source of modern, medially, accepted therapeutics, they have also proven an abundant source for quackery. From Dr. Bateman's Pectoral Drops, recommended for "rheumatism, afflictions of the stone, gravel agues, the hysterics", to Munyon's Miracle Kidney Cure, which was claimed to "cure Bright's disease, all urinary problems, and pain in the back and groins from kidney diseases", the 19<sup>th</sup> century witnessed nearly unbelievable excesses in pharmaceutical advertising. Beginning in colonial America and extending to the passage of the Pure Food and Drug Act, a plethora of quack pharmaceutical manufacturers produced and aggressively marketed home remedies of dubious origin and questionable chemical purity. Whether the ingredients were opium and ethanol or simply milk sugar, no regulations governed their manufacture or sale. Dr. Heindel will trace the birth of America's patent medicine industry in the late 18<sup>th</sup> century and its heyday of unregulated commercial success in the 19<sup>th</sup> century. The role of chemistry in the production, analysis, and eventual legal regulation of patent medicines will also be treated.. .

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[Reservation Information on Page 2] ☞

**Schedule:**

5:00 - 6:30 PM      Social Hour-and –A-Half      Oklahoma Frontier Drugstore Museum  
113 West Oklahoma Avenue  
Guthrie OK 73044  
405.282.1895

6:30 PM – 7:15 PM Meal                      Granny Had One Restaurant  
113 West Harrison  
Guthrie OK 73044  
405.282.4482

7:15 PM – 8:30 PM                          Speaker: Dr. Ned D. Heindel

Dinner Menu:      Herb roasted chicken, Wild rice, Vegetables, Rolls, Coffee & Tea.

Cost:              \$20.00-ACS Member; \$5.00-ACS Student Affiliate.

**Reservation Deadline:** Friday, 02/13/09 5:00 P.M.      Charles Rice 405.325.5831      rice@ou.edu

**Oklahoma Frontier Drugstore Museum:**

You might care to visit the Oklahoma Frontier Drugstore Museum.

Collections reflect the history of pharmacy and medicine in the 19<sup>th</sup> and 20<sup>th</sup> centuries in the Oklahoma and Indian Territories and in the State of Oklahoma. <http://www.drugmuseum.org/>

**Granny Had One Restaurant:**

<http://www.grannyhadone.biz/home.html>

**Dr. Ned D. Heindel**

**Professional Activities:** President, American Chemical Society (Washington, DC), 1994; director, American Chemical Society (Washington, DC), 1985-1996; director; Council for Chemical Research, 1995-1999; Board Member, IUPAC-USA, 1995-2001; Board Member, Chemical Sciences Roundtable-National Academy of Sciences, 2001-present; director; Centcom Advertising, Ltd. (Westport, CT), 1987-1995; trustee, Northampton County Historical Society; 1989-present; trustee, Keystone Junior College (1975-89) trustee, Chemical Heritage Foundation (Board then Heritage Council), 1986-present; member, Journal Pharmaceutical Science board (to 12/90); member, Bioconjugate Chemistry board (to 12/03); chairman, Chemical & Engineering News board (1988, 1992-93; member 1994-95); consultant, Unimed Pharmaceuticals, Somerville, NJ, 1989-1995; consultant, Digestive Care, 1992-present; consultant, Bio-ProX, 1995-1997; consultant, DCV Pharmaceuticals, 1998-2000; consultant Serenix Pharmaceuticals, 1999-present; consultant, National Museum of American History, Smithsonian Institution, Washington DC; 1990-present; consultant, Air Products and Chemicals, Allentown, PA, 1991-present; consultant, Apollon Corp., Malvern, PA, 1992-1995.

**Education/Degrees:** Lebanon Valley College, B.S.cum laude, 1959 (Chemistry/Math); University of Delaware, Ph.D., 1963 (Organic Chemistry); Princeton University, fellow, 1964 (medicinal Chemistry); Lebanon Valley College, honorary D.Sc. 1985; Albright College, honorary D.Sc., 1993. **Experience:** instructor, University of Delaware, 1962-63; visiting fellow, Princeton University, 1963-64; assistant professor, Ohio University, 1965; assistant professor, Marshall University, 1964-66; assistant, associate full professor of chemistry, Lehigh University, 1976-present; professor of nuclear medicine, Hahnemann University, 1971-present; director, Center for Health Sciences, Lehigh University, 1980-87. **Honors:** Robinson Award (1969), Brody Award (1978), H. S. Bunn Distinguished Chair in Chemistry (1985-Present), Who's Who in America (1886-present), Brady Cancer Achievement Award (1989), Henry Hill Award in Medicinal Chemistry (1997), Mosher Award for Contributions to Chemistry (1996), Ben Franklin Partnership Award for Corporate Consulting (2002).

## Oklahoma Section Chair – 2009

Lloyd A. Bumm – is an Associate Professor in the Department of Physics and Astronomy at the University of Oklahoma. He joined the department in 2001. Bumm received his B.S. in chemistry from Clarkson University (1982) and his PhD in Physical and Analytical Chemistry with R.P. Van Duyne at the Northwestern University (1991). He has held post doctoral positions at Pacific Northwest National Laboratory with James P. Cowin and at the Pennsylvania State University with Paul S. Weiss in the Chemistry Department. Bumm is an experimental physical chemist interested in single molecule measurements, single nanoparticle plasmonics, and novel instrumentation for combined scanned probe microscopy and optical spectroscopy. To date, he has 32 publications and one patent. His honors include the NSF Faculty Early Career Development Award and the OU Junior Faculty Research Award. He is the co-developer of NanoLab, a hands-on laboratory course in nanoscience, funded by an NSF Nanotechnology Undergraduate Education grant. He attends ACS, APS, AVS, and MRS meetings.

### Thanks To:

Dr. Tim Smith for his years of dedicated service as Alternate Councilor for the Oklahoma Section, ACS. Tim served as Councilor from 2004-2008. Because of the increased time demand from Tim's academic duties and family responsibilities, Tim decided to resign his Alternate Councilor post.

Shawna S. York Assistant professor of chemistry Oklahoma Baptist University, is the immediate past chair Oklahoma Section ACS. Shawna's approach to Section duties belied her ability to get whatever job needed to be done at Executive Committee meetings or other times. Thank you Shawna for a job well done. We appreciated your work and efforts!. Shawna has been the coordinator of the National Chemistry Olympiad for the Oklahoma Sections since 2002.

## 2008 Section Election Results

### Chair-elect: Will Serve The Year 2010

Nick Materer - completed a Bachelor of Science in Chemistry with Honors at the University of Missouri -Columbia in 1990. He received his Ph.D. in 1995 from the University of California, Berkeley under the guidance of Professor Gabor Somorjai and Dr. Michel Van Hove. After UC Berkeley, Nick took a postdoctoral fellow position in the group of Stephen R. Leone at JILA and the Department of Chemistry and Biochemistry at the University of Colorado. Since 1998, Nick has been a faculty member in the department of chemistry at OSU. In the summer of 2004, he was promoted to the Associate Professor level. He also recently received College of Arts and Science Junior Faculty Award for Scholarly Excellence. Materer has published over thirty-six papers in peer-reviewed journals. Nick's research involves experimental surface science studies of interfacial chemistry and physics. Ongoing projects are the exploration the surface chemistry of silicon with organic molecules, chemical mechanism for detection and desensitizing of explosives and corrosion sensors for our ageing infrastructure.

### Secretary [2009 & 2010]

Edward Neparko - is an Emeritus Professor of Chemistry, Department of Chemistry & Physics, Southwestern Oklahoma State University. He received a B.Sc. [Honors] from the University of Manitoba and a Ph.D. in Physical Chemistry from the University of Oklahoma. He served on the SWOSU faculty for thirty-one years teaching Physical Science, General Chemistry, Physical Chemistry and Russian prior to his retirement in 1994.

## Oklahoma Chemist Award – 2009

Nominations for Oklahoma Chemist of the Year - 2008 are now being accepted.

Five [5] copies of a single nomination should be sent by no later than January 23, 2009 to:

Dr. K. Darrell Berlin-Chair  
Oklahoma Chemist Awards Committee  
Department of Chemistry  
Oklahoma State University  
Stillwater OK 74078  
405.744.5950  
kdb@okstate.edu

Criteria /Guidelines for Preparation of Nomination and For Selection of the Recipient of The Oklahoma Chemist Award.

1. A nomination letter for the candidate by a colleague, friend, etc.
2. A complete, up-to-date resumé of the candidate.
3. A two-page “highlight” of the candidate’s major accomplishments.
4. Five [5] letters of support for the nominee.  
[a] Two [2] letters from colleagues at the candidate’s place of employment.  
[b] Three [3] letters from outside the candidate’s place of employment. Letters from individuals with expertise in the candidate’s field are especially welcomed.
5. Special information on the candidate is also solicited, especially as to how the candidate has advanced chemistry in the state of Oklahoma.
6. Candidates may be involved in research or in chemical education within the state.

kdb . . . . . 

Oklahoma ACS Pentasectional 2009  
April 17 & 18, 2009  
Oral Roberts University  
7777 South Lewis Avenue  
Tulsa OK 74171

### Sections Included In The Meeting:

Energy and Environment  
Chemical Education/Molecular Modeling/Environmental Chemistry  
Organic Chemistry, Biochemistry/Medicinal Chemistry  
Petroleum Chemistry/Polymer Chemistry/Nanoparticles  
Inorganic Chemistry/Physical Chemistry  
Poster Session

### More Information will follow:

Patrick Idwasi, Ph.D.  
Assistant Professor of Chemistry  
Division of Science & Mathematics  
Tulsa Community College – Metro Campus  
909 South Boston  
Tulsa OK 74119

### Oklahoma Section Website:

Dr. James J. Dechter – is the Section webmaster. Jim is Professor of Chemistry, University of Central Oklahoma. Jim served as UCO Chemistry Department Chair from 2000-2004. Jim was also Section Chair in 2001. To post information on the website, contact Jim. 405.974.5435. e-mail: [jdechter@uco.edu](mailto:jdechter@uco.edu)  
The Oklahoma Section web site: <http://membership.acs.org/O/Oklahoma/Index.htm>.

### Two Recent Reader Letters to the Wall Street Journal

*I must have dozed off and skipped a page. Our new policy is to sell government bonds to raise cash to give to private equity firms to lend to non-creditworthy borrowers so they can drive new Chevy Suburbans down our crumbling roads and bridges, converting Middle East oil into greenhouse gases at the highest possible rate? Unbelievable!*

Murray Ross  
Pleasant Hill, CA

*What business model will work when you borrow money from the Treasury at 8% and lend to car buyers at 0%? There is nothing available to pay for the cost of running the business This makes no sense. How can our representatives allow taxpayers to be taken in by such foolishness?*

Nigel D Morgan  
New York

Oklahoma Section ACS 2009 Calendar of Events:

Visit the Oklahoma ACS WWW site for the latest information.

<http://membership.acs.org/O/Oklahoma/index.htm>

April 17 – 18, 2009

ACS Pentasectional Meeting

Oral Roberts University – Tulsa

Stay tuned for abstract and registration deadlines.

Thursday, April 23, 2009

Local Section Meeting – TBA

Addison Ault – Professor of Chemistry, Cornell College, Mount Vernon IA

Chance Design in Organic chemistry

Monday, May 11, 2009

Local Section Meeting TBA

Michael Tunick USDA, Wyndmoor PA

Chemistry of Cheese

Monday, September 14, 2009 – [Note: this date may change]

Local Section Meeting – TBA

William F. Carroll – OxyChem, Dallas TX

From Garbage To Stuff: How We Recycle Plastics

October 18 – 24, 2009

National Chemistry Week

Saturday, Afternoon - October 24, 2009

Local Section Meeting – TBA

Joe A Vinson – Professor of Chemistry, The University of Scranton, Scranton PA

Chemistry and Biochemistry of Coffee: A Healthy Beverage?

Friday, November 20, 2009

Local Section Meeting – TBA

J Keith Butler – American Ordnance LLC, Trenton TN

Military Explosives

Reprinted letters and articles as well as the editor's unsigned article[s] in this Newsletter do not necessarily reflect the views of the Oklahoma Section of the ACS.

**February 2009 Section Meeting**

**Friday 20 February, 2009**

**Granny Had One Restaurant  
113 West Harrison Street  
Guthrie OK 73044  
405.282.4482**

**Speaker: Dr. Ned D. Heindel**

*Tinctures, Tonics, and Patent Medicines: A History of Commercialized Quackery.*

**Oklahoma ACS 2009 Calendar Of Events – Other Side This Page .**



Oklahoma Section ACS  
Southwestern Oklahoma  
State University  
100 Campus Drive  
Weatherford OK 73096-3098

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