

Outputs and Interactions – Laboratory Office

1. Publications

1a. Publications in Print

Morgan, J.W., Walker, R.J., Horan, M.F., Beary, E.S., Naldrett, A.J., *190Pt-1860s and 187Re-1870s Systematics of the Sudbury Igneous Complex*, Ontario, *Geochemica and Cosmochimica Acta*, 66,(2) pp. 273-290 (2002).

Pratt, K.W., Koch, W.F., Wu, Y.C., and Berezansky, P.A., “*Molality-Based Primary Standards for Electrolytic Conductivity*,” *Pure Appl. Chem.*, 73(11), 1783-1793 (2001).

Semerjian, H.G., Beary, E.S., “Impact of Metrology on the Economy and Quality of Life,” International Symposium on Measurement Standards 2002, April 2002.

Semerjian, H.G., Koch, W.F., Beary, E.S., Epstein, M.S., Vasquez, G.B., and Manion, J.A. *Chemical Science and Technology Laboratory Annual Report, FY2001, NISTIR 6856, February 2002*

1b. Manuscripts in review

(manuscripts that have been approved by the NIST internal review process and submitted for publication, but have not yet appeared in print)

2. Talks

Koch, W.F., “Certified Reference Materials for Laboratory Medicine”, Joint Committee for Traceability in Laboratory Medicine Meeting, Paris, France, June 10, 2002

Koch, W.F., “Development of Future Reference Materials /Reference Measurement Procedures”, American Association for Clinical Chemistry Annual Meeting, Edutrak 3305, Orlando, Florida, July 30, 2002

Koch, W.F., “Chemistry at the National Institute of Standards and Technology: A Medley of Metrology”, 190 Years of Chemistry Symposium, Loyola University, Chicago, Illinois, September 21, 2002

Semerjian, H.G., “Impact of Metrology,” Science and Engineering Alliance, October 11, 2001

Semerjian, H.G., “CSTL Program Review,” NIST, Gaithersburg, MD, October 17, 2001

Semerjian, H.G., “CSTL Overview,” Food and Drug Administration, November 15, 2001

Semerjian, H.G., "Presentation to National Response Team," Homeland Security, November 29, 2001

Semerjian, H.G., National Chemical Landmark, "History of Chemistry at NBS/NIST," December, 2001

Semerjian, H.G., "Chemical Science and Technology Laboratory" - an Overview, Gaithersburg, MD, December 6, 2001

Semerjian, H.G., "Chemical Science and Technology Laboratory Overview," to Cameron Wilson from the House Science Committee, January, 2002

Semerjian, H.G., "CSTL Staff Update," Chemical Science and Technology Laboratory, February 21, 2002

Semerjian, H.G., "Chemical Science and Technology Laboratory Overview," NRC Board on Assessment Panel for CSTL, Gaithersburg, MD, March 12, 2002

Semerjian, H.G., "Impact of Metrology on the Economy and Quality of Life," International Symposium on Measurement Standards, Tokyo, Japan, April 12, 2002

3. Committee Assignments

E. S. Beary

NCCLS (National Committee for Clinical Laboratory Standards), Sub-Committee on Microwave Device Use in the Medical Laboratory
NIST Advisor's Committee
Sigma Xi Admissions Committee - elected chair for FY2001
Green Chemistry and Engineering Conference Organizing Committee

W.F. Koch

NCCLS (National Committee for Clinical Laboratory Standards)
Past President
Executive Committee, Member
Board of Directors, Member
Strategic Planning Committee, Chair
Global Programs Committee, Member
Nominating Committee, Member
CCR (Council for Chemical Research)
Action Network on Long-range Issues, Leader
ASTM (American Society for Testing and Materials)
D19 Water, Member
D22 Sampling and Analysis of Atmospheres, Member
ISO (International Organization of Standards)

Technical Committee 212, Clinical Laboratory Testing and in vitro Diagnostics,
Member
US Technical Advisory Group for TC 212, Executive Committee Member
DIRAG (Directors of Research Analytical Group)
Member

H.G. Semerjian

(CIPM) International Committee of Weights and Measures
(CCQM) Consultative Committee on Amount of Substance
Council for Chemical Research
Directors of Industrial Research - Analytical Group
Center for Advanced Research in Biotechnology Board of Overseers
Interamerica Metrology System (SIM)
Council Member
Chair, Quality System TF
SIM Representative to the JCRB
Member, National Academy of Engineering
Member, National Research Council of Canada, Institute for National Measurement
Standards Advisory Board (INMS)
Member, Joint Committee of the Regional Metrology Organizations and the BIPM
(JCRB)
Member, Climate Change Science Program Office Subcommittee on Global Change
Research

4. Seminars

CSTL Colloquium Series

November 15, 2001

David J. Beebe, Department of Biomedical Engineering, University of Wisconsin-Madison.
“Organic, Autonomous Microfluidic Systems & Culture in Microenvironments”

December 4, 2001

Delbert J. Eatough, Professor of Chemistry, Brigham Young University
“Use of Continuous PM Samplers in the Utah EPA EMPACT and STAR Programs”

February 20, 2002

Daniel W. Armstrong, Department of Chemistry, Iowa State University
“Ultra-High Efficiency Microbial Separations”

March 6, 2002

Christopher J. Welch, Research Fellow, Merck & Co., Inc.
“The Chirons of Titan: A Search for Extraterrestrial Enantioenrichment”

March 20, 2002

Jack B. Howard, Department of Chemical Engineering, Massachusetts Institute of Technology

“Fullerenes Production in Flames - Fundamentals and Applications”

April 17, 2002

Jesse L. Beauchamp, Mary and Charles Ferkel Professor of Chemistry, Caltech

“Chemistry of Highly Charged Nanodroplets”

April 30, 2002

Alexander M. Klibanov, Professor of Chemistry and Bioengineering, Massachusetts Institute of Technology

“Designing Surfaces That Kill Bacteria On Contact”

May 8, 2002

Thomas M. Mallouk, Dupont Professor of Materials Chemistry, The Pennsylvania State University

“Nanowires: Synthesizing the Computer of the Future”

May 22, 2002

Theodore E. Madey, Department of Physics and Astronomy, Rutgers, The State University of New Jersey

“Highlights of Surface Science at NBS/NIST: Accomplishments and Impacts”

June 19, 2002

Murray V. Johnston, Professor of Chemistry, University of Delaware

“Real-Time Characterization of Airborne Particles by Aerosol Mass Spectrometry”

September 26, 2002

Archie P. Miiller, Chemical Science and Technology Laboratory, Process Measurements Division

“Final Report on Key Comparison CCM.P-K5 in Differential Pressure from 1 Pa to 1000 Pa”

5. Conferences/Workshops/Sessions Sponsored/Co-Sponsored

Pre-JCTLM Meeting with AdvaMed Industry Representatives, NIST, Gaithersburg, MD, May 16, 2002

Workshop on Traceability in Laboratory Medicine, BIPM, Sèvres, France, June 9-11, 2002