

LINDA ELLEN JONES, Ph.D.

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EDUCATION

Ph.D., Fuel Science, The Pennsylvania State University	1987
M.S., Fuel Science, The Pennsylvania State University	1984
B.S., Chemistry, University of Mary Washington	1980

EXPERIENCE

Western New England University

Provost and Vice President for Academic Affairs	2014 - present
Professor of Engineering	

Alfred University – The New York State College of Ceramics

Vice President	2010 - 2014
Head of the New York State College of Ceramics	
Professor of Ceramic Engineering and Materials Science	

Smith College

Director, Picker Engineering Program	2005 - 2010
Chaired Professor, Rosemary Bradford Hewlett '40 Professor of Engineering	

Alfred University – The New York State College of Ceramics

Chair, Materials Science and Engineering Program	2003 - 2005
Professor, Ceramic Engineering and Materials Science	2001 - 2005
Associate Professor, Ceramic Engineering and Materials Science	1997 - 2001
Assistant Professor, Ceramic Engineering and Materials Science	1991 - 1997

The Pennsylvania State University

Research Associate, Center for Advanced Materials, NASA Hi-Temp Program	1988 - 1991
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Atlantic Research Corporation

Senior Materials Engineer, Propulsion Division, Hypervelocity Materials	1986 - 1988
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The Pennsylvania State University

Graduate Research Assistant / Graduate Teaching Assistant	1982 – 1986
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Atlantic Research Corporation

Propellant Chemist, Fuel Rich Propellant Research and Development	1980 - 1981
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SERVICE ON BOARDS AND OTHER KEY DECISION MAKING BODIES

Committee of Visitors, National Science Foundation, Math and Physical Sciences Directorate	2010
Board of Directors, American Ceramic Society	2009 - 2015
Executive Committee, American Carbon Society	2005 - 2014
Chaired Professorships, Smith College	2007 – 2010
Board of Trustees, Allegany County United Way	2010 – 2013
Deans Advisory Board, Cal Poly - San Louis Obispo	2006 - 2010
Advisory Board, Picker Interdisciplinary Science Institute, Colgate University	2007 – 2014
President, (2 terms), Alfred University Faculty Senate	2002 - 2005

HONORS

Distinguished Alumnus Award, University of Mary Washington	2016
R.E. Tressler Award, The Pennsylvania State University	2014
Outstanding Educator Award – American Ceramic Society	2013
John F. McMahon Award and Lecture – “Engineering in Context” American Ceramic Society	2008
Inducted as Fellow of the American Ceramic Society	2008
Opening Plenary Lecture – Invited, International Carbon Societies <i>Carbon 2006</i> – “The Structure of Carbon Solids,” Seattle, WA.	2006
Trendsetter, Listed as one of 50 people, places and events that shaped the world in 2006, in Public Works, Vol 137, No. 12.	2006
Joseph Kruson Trust Fund Award for Excellence in Teaching	2004
McMahon Award for Excellence in Teaching	2003
Award for Excellence in Research and Scholarship, State University of NY	2003
McMahon Award for Excellence in Teaching	2001
Ruth Berger Ginsberg Award for Excellence in Teaching	2000
SUNY Chancellor’s Award for Excellence in Teaching	1999
Mrozowski Award from the American Carbon Society – <i>Best Paper</i>	1999
McMahon Award for Excellence in Teaching	1998
Graffin Lectureship - American Carbon Society	1997
Kruson Teaching Excellence Award in Ceramic Engineering	1994

PROFESSIONAL SOCIETIES

American Carbon Society: Executive Committee
American Ceramic Society:
Board of Directors (2006 – 2014)
President, Ceramic Education Council (1999-2004),
Fellow of the Society
American Society of Engineering Educators – ASEE (Divisions)
Women in Engineering Division,
Multidisciplinary Division
Liberal Education Division
Engineering Deans Council – ASEE (2005-2010)
National Society of Black Engineers – Faculty Advisor
Society of Women Engineers – Representative for Smith College
Materials Research Society
Sigma Xi – President of Smith College Chapter (2008 – 2010)

FACULTY SERVICE – SIGNIFICANT CONTRIBUTIONS

Faculty Council, College of Ceramics, Alfred University	1997-2000
Tenure and Promotion Committee, Alfred University	1999-2003
Middle States Assessment Working Group	2002
Faculty Senate, Alfred University	2000-2005
Senate President	2002-2004
Senate President, Interim replacement	2005
Strategic Planning Council, Alfred University	2004
Committee, Revision of the Faculty Code, Alfred University	2001-2003
ABET Self Study, Materials Science	2005
Chairs and Directors, Smith College	2005-2010
Ad Hoc Chairs-Faculty Council Committee	2008
Ford Hall User's Group, Smith College	2005-2009
Program Coordinator to the Committee on Academic Priorities, Smith	2006-2010
Science Center Scholarship and Awards Committee, Smith College	2006-2010
Science Center Environmental Health and Safety Review Committee	2008-2010
President Christ's Committee to Elect Chaired Professors, Smith	2008-2010
Chair, Program Honors , Smith	2006-2010
ABET Self Study, Smith College	2009-2010

SELECTED ADVANCEMENT/DEVELOPMENT EXPERIENCE

Stewardship, Kyocera Corporation (2010 – 2014) – Inamori Kyocera Fine Ceramics Museum
 Hosted Dr Kazuo Inamori, Chairman, Kyocera Corporation for the Symposium and Dedication, \$10M gift for chaired faculty positions

P.I., Branta Foundation (2009) – \$1M for 2 years to the Picker Engineering Program – purchase equipment that will transform the engineering curriculum

Principal, Sally Ride Foundation for Women in Science (2007-2010) - Worked directly with Foundation to reestablish Smith's involvement in ToyChallenge

P. I., Iraqi Women's Fellowship Foundation (2008-2010) Collaborator with Mary Oakes Smith Principle of IWFF; Smith is the lead institution among Stanford, Berkeley and UC – San Diego in a program that brings Iraqi women engineers to the US to study and train. Sponsors – US Dept of State, Oversight and selections of students made by the Fulbright Foundation (AMIDEAST).

P.I., Ford Foundation, (2006) \$650K –Gift established to support engineering at Smith

P.I., Bechtel Family Fund (\$10,000/yr) – Annual gift from Stephen Bechtel (CEO) to support assessment and student activities within the Picker Engineering Program

Principal Contact, Bass Family Gift (2008), \$10M – Worked with Smith Development to propose an endowment for the support of Faculty in Bioengineering

P.I., Yale University (2009 –2010) – Establishing an endowment for Graduate Study at Yale University with the support of Henry Schott (CEO-ret.) Lucent Technologies

Principal Contact, Corporate Relations - Established corporate relationships with Excelon, Google Inc., Apple Inc., Duke Energy, Dow Chemical, Bechtel Corp., Hewlett-Packard and Sally Ride Science.

COURSES TAUGHT

Engineering for Everyone (First Year Engineering)

Materials Science

Thermal and Mechanical Properties of Materials

Mechanics Laboratory

Composite Design and Fabrication

Energy, Environment and Materials.

Mass and Energy Balances

Design Clinic – Faculty Coach

Covalent Solids

Corrosion and Degradation of Materials

Structure of Solids (Crystal Chemistry)

Introduction to Materials Science

Engineering Materials Laboratory

Director of Honors in Engineering – Smith College

RESEARCH INTERESTS

Novel forms of carbon and carbides; synthesis and oxidation behavior

Synthesis of diamond and diamond oxidation

High-temperature solid-gas reactions

Environmental impacts of ceramic and glass manufacturing

Structural composite materials and fibers: role of structure and chemistry on oxidation and mechanical properties

GIFTS, AWARDS AND GRANTS**Recent Awards**

Co-Investigator with Olivia Graeve (Alfred University) and Andrea Hodge and Veronica Eliasson (U. of Southern California), *Synthesis and mechanical properties of next generation structural amorphous metals and their performance under ballistic impact*, DTRA – DoD, \$800,000, 2011-2014

Recently Submitted

Co-PI with David Lipke, Doreen Edwards, Scott Misture and Eric Payton (Alfred University), *Acquisition of a Xenon-Arc Image Furnace for the Synthesis and Study of Materials in Extreme Environments*, ONR-DIRIP, 2014 application

Co-PI with Scott Misture (Alfred University) and Pacific Northwest National Laboratory, Nuclear Energy University Programs (NEUP-DOE), *Crystallization behavior of simulated waste glasses*, \$650,000, 2012

Co-PI with Olivia Graeve (Alfred University), NSF- MRI: Acquisition of a TEM for SMAL Facility at Alfred University, 2012

Co-PI with Ileana Streatinu (Smith College), Harry Bermudez (UMass), Ciprian Borcea (Rider) and Joseph Scheer (Fine Arts – Alfred University), EFRI-ODISSEI: *Geometric Folding and Periodic Frameworks: From Rigid Origami to Novel Materials*, \$800,000, 2012

Collaborator: Center for Biomathematics at Smith “Geometry of Carbon Nanotubes and Microtubes”– exploring the mathematics of chirality (Linda Jones and Elizabeth Denne), 2011

Completed

Thirty eight (38) research proposals funded and completed between 1991 and 2011. Selected significant projects are listed here for an overview.

PI, Branta Foundation, Gift for Engineering Equipment, Picker Engineering Program at Smith College, 2009. \$1,000,000.

Co- PI with E. Jamieson at Smith College, NSF MRI for ICP/AA – Supporting the Center for Aqueous Biogeochemistry, 2008. \$250,000

Collaborator, U.S Department of State in Iraq – Iraqi Womens Fellowship Foundation, *iwff*, Fellowship support for 2 Iraqi Women Engineers (awarded), \$200,000.

PI, Bechtel Family Foundation – Aid to Education, \$10,000/year, 2005 -current.

PI, “C6B Nanotubes for H₂ Storage”
Center for Energy and Environmental Materials, EPA, September 2004

PI, “Synthesis of Phase Pure B₄C” Lockheed Martin, 2003 – 2006.

PI, “Improved Oxide Electrodes for Ultra-High-Temperature NO_x Sensors” L. E. Jones and D. Edwards, submitted to DOE, October 2004

PI, “Testing and Evaluation of Boron Carbide (B₄C) Materials,”
Phase 1 - III: Characterization of B₄C Samples and Manufacture of Standards
Lockheed Martin: Knolls Atomic Power Laboratory Contract No. DE-AC-12-00SN39357.
2000 -2003

PI, “Analysis of Emissions Produced during Glass Batching and Melting: A Focus on Nitrate Containing Glasses,” L. E. Jones and A. G. Clare, NSF Industry-University Center for Glass Research, 2000 - 2003

PI, “Technical Specification for MR 1016400D Graphitar-14 and P9340 Composite Study, Testing and Evaluation of Physical and Chemical Properties Degradation of Composite Materials Containing PF Resin
Knolls Atomic Power Laboratory, Lockheed-Martin Company, Phase IV, Contract No. DE-AC12-76SN00052, 1999-00

PI, “Computational Study of The Energetics of Oxygenated Diamond (111) Surfaces,”
L.E. Jones, J.Y. Howe, and A.N. Cormack, NPACI (National partnership for advanced computational infrastructure) 1999.

PI, "Processing of Tailored SiC Fiber Reinforced B-Si-C Composite Matrices Via Polymer Infiltration and Pyrolysis" Center for Advanced Ceramic Technology - Initiated January 1996

PI, "Materials Selections for Journal Bearing Applications in a Single Stage Screw Compressor," Dresser – Rand, 1995-1996.

PI, "A Study of the Effectiveness of Reticulated Ceramics as Pollution Abatement Devices for a Wide Range of Exhaust Gas Compositions," *Hi-Tech Ceramics/NYSERDA – 1994-1996*

PI, "An Investigation of BC₃ - A New Material With The Graphite Structure,"
USAF - Air Force Office of Scientific Research (AFOSR) 1992 – 1995

PATENTS

US Patent 4,482, 411, Plasticizer system for propellant compositions, William D. Stephens and Linda E. Jones, Dated November 1984, Assigned to the United States of America as represented by the Secretary of the Air Force

Abstract: The present invention discloses the preparation of a novel family of polytetramethyleneglycol mono-octanoate ester-ethers and their use as internal plasticizers for propellant compositions.

US Patent 4,482,410, Plasticizer system for propellant compositions, William D. Stephens and Linda E. Jones, November 1983,

RESEARCH ACTIVITIES – PUBLICATIONS

The work in my laboratory is focused on high temperature corrosion and degradation of structural ceramic materials including carbon-carbon composites and carbides. My interests and analysis techniques have been extended to the study of volatile emissions produced during the manufacturing of glass. I have become increasingly engaged in predictive thermochemistry and the synthesis of amorphous metals

Contributions to Books

Chapter 6. Managing and Evaluating Mentorship, in *Mentoring for Engineering Academia II*, Proceedings of a Banff International Research Station Workshop, BIRS for Mathematical Innovation and Discovery, 64-75 (2007)

"What do we mean by Engineering and Liberal Arts Integration?" Symposium Series on Engineering and Liberal Education, Union College, NY May 9-10, 2008

Radio and MP3 Pod Casts

Oil, Energy and Policy, with Paul Krugman and Marilyn Brown, WomenMatters.com Spring 2006.

Programs sponsored by the American Association for the Advancement of Science

Why is it? #359 "Hard Diamonds" Mutual Broadcasting's America in the Morning and ABC News Website: <http://www.ABCNews.com/sections/science>, February 9, 1999

Why is it? #360 "Flawless Diamonds" Mutual Broadcasting's America in the Morning and ABC News Website: <http://www.ABCNews.com/sections/science>, February 11, 1999

Peer Reviewed Publications

1. "X-Ray Diffraction of Nuclear Grade Graphite," *L. E. Jones and L. Wang*, Carbon, submitted 2013.
2. "Challenges in Ceramic Science: A Report from the Workshop on Emerging Research Areas in Ceramic Science," Gregory S. Rohrer1., Mario Affatigato, Monika Backhaus,

- Rajendra K. Bordia, Helen M. Chan, Stefano Curtarolo, Alex Demkov, James N. Eckstein, Katherine T. Faber, Javier E. Garay, Yury Gogotsi, Liping Huang, Linda E. Jones, Sergei V. Kalinin, Robert J. Lad, Carlos G. Levi I, Jeremy Levy, Jon-Paul Maria, Louis Mattos Jr., Alexandra Navrotsky, Nina Orlovskaya, Carlo Pantano, Jonathan F. Stebbins, T. S. Sudarshan, Toshihiko Tani, K. Scott Weil, *Journal of the American Ceramic Society*, Volume 95, Issue 12, 3699–3712, December 2012
3. “The Influence of Aluminum Phosphates on Carbon-Carbon Oxidation,” L. E. Jones, C.R. Maier, *Carbon* [43]2272-76 (2005).
 4. “Influence of Boron on the Structure and Oxidation Behavior of Graphite Fiber, P120” J.Y. Howe and L. E. Jones, *Carbon*,[42]461-67(2004).
 5. “Fourier-Transform Infrared Spectrometry Measurement of Emissions Concentrations from Glass Manufacturing,” T.W. Samadhi, L. E. Jones, A. Kropachev, A. Clare, *J. Am. Ceramic Society*, 87[7] 1210-1215(2004).
 6. “The Measurement of Density and Surface Tension of Glass Melts using the Sessile Drop Method,” A.G. Clare, A. Kucuk, D.R. Wing and L. E. Jones, In High Temperature Glass Melt Properties Database for Process Modeling, ACerS (2004).
 7. “The Influence of Carbon on SO_x Emissions from Glass Processing” T.W. Samadhi, L.E. Jones and A.G. Clare, *J. of Am. Ceramic Society*, 86[12] 2044-49 (2003).
 8. “Improved Crystallographic Data for Graphite,” J.Y. Howe, C.J. Rowe, H. Ow and L. E. Jones, *J. Powder Diffraction*, 18[2] 150-154(2003).
 9. “Analysis of Emissions from Nitrate Containing Glasses,” S. Luo and L.E. Jones, Environmental Issues and Waste Management Technologies in the Ceramic and Nuclear Industries VIII, *Ceramic Transactions*, Vol. 143, 49-57 (2003).
 10. “Sodium sulfate decomposition in dry atmospheres,” T.W. Samadhi, J.C. Elliott, L. E. Jones, and A.G. Clare, *Glastech. Ber. Glass Sci. Technol.* 74(2001)47-56.
 11. “Decomposition of Sodium Sulfate in Presence of Carbon: Measurement of SO_x Using Mass Spectrometry,” in Environmental Issues and waste Management Technologies in the Ceramic and Nuclear Industries VI (D. R. Spearing, G. L Smith and R. L. Putnam, Editors) *Ceramic Transactions*, Vol. 119 (2001) 517-524.
 12. “The Evolution of Microstructure of CVD Diamond Via Oxidation,” J.Y. Howe, L.E. Jones and D. N. Braski, *Carbon* [38], 929-41 (2000).
 13. “An Auger and XPS Study of CVD and Natural Diamond,” J.Y. Howe and L.E. Jones, *Mat. Res. Soc.*, Vol 593 (2000) 453-58.
 14. “SO_x Emissions from Glass Manufacturing: Decomposition of Sodium Sulfate as Influenced by Carbon,” T.W. Samadhi, L.E. Jones, and A.G. Clare, *Glastech. Ber. Glass Sci. Technol.* 73 C2 (2000) 361-69.
 15. “The Bulk and Surface Structure of Potassium and Lithium Silicate Melts at 1700K: A Comparison of Data from Sessile and Pendant Drop Measurements and Molecular

- Dynamics Simulations," A. Kucuk, A.G. Clare, A.N. Cormack, L.E. Jones and X. Yuan," *Glastech. Ber. Glass Sci. Technol.* 73 C2(2000) 430-39.
16. "Differences Between Surface and Bulk of Glass Melts I: Compositional Differences and Influence of Volatilization on Composition and Physical Properties," A. Kucuk, A.G. Clare, and L.E. Jones, *J. of Non-Crystalline Solids*, 261 (2000) 23-38.
 17. "Differences Between Surface and Bulk of Glass Melts II: Influence of Redox Ratio on Surface Properties of Silicate Melts, A. Kucuk, A.G. Clare and L. E. Jones, *Physics and Chemistry of Glasses*, 41 (2000) 75-80.
 18. "The Influence of Various Atmospheres on the Surface Properties of Silicate Melts," A. Kucuk, A.G. Clare and L. E. Jones, *Glastech. Berichte Glass Sci. Technol.* 73[5] (2000)123-29.
 19. "An Investigation of Vapor Deposited Boron Rich Carbon - BC_x: The Structure of BC_x (C₆B) Thin Films" Charles T. Hach, Linda E. Jones, Carl Crossland and Peter A. Thrower, *Carbon* 37[2], 221-30(1999).
 20. "An Estimation of Surface Tension for Silicate Glass Melts at 1400°C Using Statistical Analysis," A. Kucuk, A.G. Clare, and L.E. Jones, *Glass Technology*, 40[5], 149-53 (1999).
 21. "The Behavior of Oxide Bonded SiC Reticulated Ceramics in Combustion Environments" M. Eber and L. E. Jones, *British Ceramic Transactions*, 1999.
 22. "Emissions Produced Upon the Processing of Silicate Glass," L. E. Jones, E.D. Larson, T. W. Samadhi and Alexis G. Clare, In *Advances in Fusion and Processing of Glass II*, (Editors Alexis G. Clare and Linda E. Jones) Ceramic Transactions, The American Ceramic Society, Vol 82(1998) pp 81-94.
 23. "Composite Materials," Linda E. Jones and Manuela Eber, In The Science and Engineering Students Handbook (Michael Bass, Editor), Materials Engineering, I.92, 1998.
 24. "Density and Surface Tension of Glass Melts as a Function of Composition at 1400 °C," In *Advances in Fusion and Processing of GlassII*, (Editors Alexis G. Clare and Linda E. Jones) Ceramic Transactions, The American Ceramic Society, Vol 82(1998) pp 287-98.
 25. "Si-B-C Based Preceramic Polymer System: The Influence of Boron on Microstructural Evolution," Eber and Jones, Transactions of the Engineering Division of the American Ceramic Society, Cocoa Beach, Vol 19, Issue 3, 485 –492 (1998).
 26. Ceramic Emissions Abatement Devices for Combustion Applications," L. E. Jones, J. Q. Hu, M. Eber and L. Pennisi, In Environmental Issues and Waste Management Technologies in the Ceramic and Nuclear Industries (Edited by Vijay Jain and Ron Palmer), Ceramic Transactions, , Vol 72(1996).
 27. "Reticulated Ceramic Inserts (Core Busters) for Ceramic Radiant Tube Applications," J. Hu, L. E. Jones and L. Pennisi, In Environmental Issues and Waste Management

- Technologies in the Ceramic and Nuclear Industries (Edited by Vijay Jain and David Peeler), *Ceramic Transactions*, Vol 61, 89 - 96 (1995).
28. "Halogenated Glass Protection Systems for Structural Carbon-Carbon Composites," N. E. LoBiondo, L. E. Jones and A. G. Clare, *Carbon*, 33 [4], 499 - 508 (1995).
 29. "Measuring Hazardous Air Pollutants," L. E. Jones and M. B. Ingram, *American Ceramic Society Bulletin*, Vol 74, No. 7, 66 - 7 (1995).
 30. "The Structure and Oxidation Behavior of the Novel Compound, BC_x," L. E. Jones and C. Hach, *ENERGIA*, Vol.6, No 3 (1995).
 31. "Emissions Concerns for Glass Manufacturing " L. E. Jones, *The Glass Researcher*, Bulletin of Glass Science and Engineering, 4 - 5, 3 [2] (1994).
 32. "Emissions Concerns for Glass Manufacturing-PART 2" L. E. Jones, A.G. Clare, and D. Gerling, *The Glass Researcher*, Bulletin of Glass Science and Engineering, 4 [1] (1994).
 33. "Evolution of NO_x and SO_x from Silicates Glasses," L. E. Jones, A. G. Clare and D. E. Gerling, *The Glass Researcher*, Bulletin of Glass Science and Engineering, 1-2, 3 [3] (1994).
 34. "Reticulated Ceramics for Pollution Reduction," L. E. Jones, *Advanced Ceramics Report* - Elsevier Advanced Technology, 3, September 1994.
 35. "The Formation and Oxidation of BC₃, A New Graphite like Material," D. A. Fecko, L. E. Jones and P. A. Thrower, *Carbon*, 31 [4], 637-44, (1993).
 36. "Oriented Microchannel Membranes Via Oxidation of Carbon Fiber Reinforced Glass Composites," E. R. Trumbauer, J. R. Hellmann and L. E. Jones, *Carbon*, 30 [6], 873-82, (1992).
 37. "Influence of Boron on Carbon Fiber Microstructure, Physical Properties, and Oxidation Behavior," L. E. Jones and P. A. Thrower, *Carbon*, 29, 251(1991).
 38. "The Influence of Structure on Substitutional Doping: SIMS Analysis of Boron Doped Pyrolytic Graphites" L. E. Jones and P. A. Thrower, *Carbon*, 28, [1], 239-41(1990).
 39. "The Effect of Boron on Carbon Fiber Microstructure and Reactivity," L. E. Jones and P. A. Thrower, *Journal de Chemie Physique*, 84, [11/12], 1431 (1987).
 40. "Bulk Graphite Nozzle Recession - An Analysis Based on the Carbon-Steam Reaction," L. E. Jones, P. A. Thrower, and P. L. Walker, Jr., *Carbon*, 24 [1], 43 (1986).
 41. "Reactivity and Related Microstructure of 3D Carbon/Carbon Composites," L. E. Jones, P. A. Thrower, and P. L. Walker, Jr., *Carbon*, 24 [1], 51(1986).

Reviewed Proceedings Papers

1. "Assessing Information Literacy in Engineering: Integrating a College Wide Program with ABET-Driven Assessment," D. Riley, R. Piccinino, M. Moriarty, and L.E. Jones, Proceedings of the ASEE Annual Conference and Exposition, 2009.
2. "Nitrate Fining and Emissions Produced During Glass Manufacturing," Linda E. Jones Ceramic Transactions, Volume 207, 255-264. Environmental Issues and Waste Management Technologies in the Materials and Nuclear Industries XII, 2009.
3. "Structure and Structure-Related Chemistry Chemistry of Boron Rich Carbon Nanofibers and Tubes" Linda E. Jones, Ling Wang and Briana Tomboulia* - *Novel Structures and Forms of Carbon – Control of Structures and Properties – 4*, Paper B092 No.1390, CARBON 2007.
4. "Crystallization of Boron-rich Crystals from High Temperature Copper Solutions," C.R. Maier and L.E. Jones, 2005 Meeting of Materials Research Society, Boston, MA.
5. "Quantitative Determination of Free Carbon and Boron in B4C by Thermal Analytical Methods," C.R. Maier, L. E. Jones, Characterization for Process Control in 21st Century Ceramic Manufacturing, Symposium 16 Paper AM-S16-21-2003, 105th Meeting of the American Ceramic Society, Nashville, TN, April 27-30, 2003.
6. "The Structure of Novel Carbon, C6B," L. Wang and L. E. Jones, *Proceedings Carbon '03*, Published by GEC Spanish Carbon Group, Oviedo, Spain, ISBN 84-607-8305-7, (2003).
7. "C6B Nanotubes and Filaments," Proceedings CARBON '04, Brown University, Providence, RI (2004).
8. "The Structure of Novel Carbon, C6B," L. Wang and L. E. Jones, *Proceedings Carbon '03*, Published by GEC Spanish Carbon Group, Oviedo, Spain, ISBN 84-607-8305-7, (2003).
9. "The Influence of Aluminum Phosphates on Carbon-Carbon Composite Oxidation," *Proceedings Carbon '03*, Published by GEC Spanish Carbon Group, Oviedo, Spain, ISBN 84-607-8305-7, (2003).
10. "The Oxidation of Diamond," J. Y. Howe and L. E. Jones, Paper 6.2, in Basic Reactions and Computational Chemistry, Proceedings CARBON '01, Lexington, KY., July 14, 2001. ISBN 0-9674971-2-4.
11. "The Influence of Aluminum Phosphates on Graphite Oxidation," , C. Maier and L. E. Jones, Paper P2.01 in Basic Carbon Science, Proceedings CARBON '01, Lexington, KY, July 15, 2001. ISBN 0-9674971-2-4.
12. "Influence of Sulfur on Carbonization of Pitch Binders for Structural Carbon Composites," A.V. Kropachev and L. E. Jones, Paper 19.6 in Mesophase/Carbonization, Proceedings CARBON '01, Lexington, KY, July 15, 2001. ISBN 0-9674971-2-4.

13. "An Auger Electron Spectroscopy (AES) and X-Ray Photoelectron Spectroscopy (XPS) Study of CVD and Natural Diamond," J.Y. Howe and L.E. Jones, *Carbon '99 Transactions*, Charleston, S.C. Volume II, 554 (1999).
14. "Oxidation of CVD Diamond," J. Y. Howe and L. E. Jones, Novel Carbons, Science and Technology of Carbon, *Transactions Eurocarbon '98*, Strasbourg, France, 699 (1998).
15. "Structure Refinement of Graphite by Reitveld Method," J. Y. Howe, S.T. Mixture and L. E. Jones, Novel Carbons, Science and Technology of Carbon, *Transactions Eurocarbon '98*, Strasbourg, France, 821 (1998).
16. "Environmental Aspects of Advanced Glass Manufacturing," L.E. Jones and T.W. Samadhi, Paper SX-005-98, Environmental Technology and Air Emissions Session, Science and Technology in Addressing Environmental Issues in the Ceramic Industry, 100th Annual Meeting of The American Ceramic Society, Cincinnati, OH, May 4, 1998.
17. "A Simultaneous Study of Batch Melting and Pollutants Produced During the Manufacturing of Glass," E.D. Larson, L.E. Jones, and A.G. Clare, Paper SV-010-97, Environmental Issues in Ceramic Manufacturing, Monitoring and Control of Air Emissions Session; 99th Meeting of the American Ceramic Society, May 5, 1997.
18. "Density Measurements for Silicate glasses at High-Temperatures," A. Kucuk, A. G. Clare, and L. E. Jones, Paper G-018-97, Glass and Optical Materials Division, Issues in Glass Manufacturing Session, 99th Meeting of the American Ceramic Society, May 5, 1997.
19. "SiC Processed from Preceramic Polymers: An Investigation of the B-Si-C System," M. Eber and L. E. Jones, Paper SIII-033-97, Ceramic Matrix Composites, Silicon Carbide Composites Session, 99th Meeting of the American Ceramic Society, May 7, 1997.
20. "Influence of Boron on Structure and Oxidation Behavior of Graphite Fiber (P120)," Fiber and Composites Sessions, 23rd Biennial Conference on Carbon, The Pennsylvania State University, State College, PA, July 17, 1997.
21. "Phenol-Formaldehyde Resin Structure for the Synthesis of Glassy Carbon," K. K. Johnson and L. E. Jones, Proceedings 23rd Biennial Conference on Carbon, The Pennsylvania State University, State College, PA, 478-9 (1997).
22. "Oxidation Inhibited BCx - Chemistry and Structure" *Extended Abstracts 22nd Biennial Conf. on Carbon*, C. T. Hach, S. E. Hill and L. E. Jones, University of California, San Diego, 138 (1995).
23. "Computer Simulation of the Influence of Boron on the Structure of BCx," SVII-62-95, C. T. Hach, S. E. Hill and L. E. Jones, Proceedings for the Computational Modelling of Materials and Processing Symposium - Structure and Phase Equilibria, I, 97th Annual Meeting of the American Ceramic Society, Cincinnati, OH, April 30 - May 3, 1995.
24. "Analysis of the Structure and Oxidation Behavior of the Novel Compound, BCx," C. T. Hach and L. E. Jones, Proc. 18th Annual Cocoa Beach Conference on Composites, Materials, and Structures - Restricted Sessions, Advanced Composites Working Group,

- (Edited by John Buckley) NASA Conference Publication 3307, 59 - 70, January 9 -14, 1994.
25. "Halogenated Glass Protection Systems for Structural Carbon-Carbon Composites," N. E. LoBiondo, L. E. Jones and A. G. Clare, Proc. 18th Annual Cocoa Beach Conference on Composites, Materials, and Structures - Restricted Sessions, Advanced Composites (Edited by John Buckley) NASA Conference Publication 3307, 71 - 86, January 9 -14, 1994.
 26. "Influence of Structure and Chemistry on the Oxidation Behavior of BC_x Thin Films," C. T. Hach and L. E. Jones, Proceedings CARBON '94, Granada, Spain, Paper B2, 120 - 21 (1994).
 27. "Environmental Issues and the Impact of the Clean Air Act on the Glass Industry," L. E. Jones and M. B. Ingram, Proceedings American Ceramic Society Fall Meeting, *Ceramic Manufacturers and Suppliers Workshop*; Louisville, Kentucky; September 24-29,1994.
 28. "Environmental Issues and the Impact of the Clean Air Act on the Glass Industry, L. E. Jones, M. B. Ingram and A. G. Clare, Extended Abstracts from the 1994 Fall Meeting of the Glass and Optical Materials Division, Columbus, OH., 16-17, 11(1994).
 29. "High Temperature Oxidation of Matrix Inhibited Carbon-Carbon Composites in Wet and Dry Oxygen," L. E. Jones, *Extended Abstracts 21st Biennial Conference on Carbon*, Buffalo, NY, 32-34 (1993).
 30. "Halogenated Glass Protection Systems for Structural Carbon-Carbon Composites," N. E. LoBiondo, L. E. Jones and A. G. Clare, *Extended Abstracts 21st Biennial Conference on Carbon*, Buffalo, NY, 34-36 (1993).
 31. "Characterization of the Structure and Chemistry of BC₃, C.T. Hach and L.E. Jones, *Extended Abstracts 21st Biennial Conference on Carbon*, Buffalo, NY, 641-643(1993).
 32. "Synthesis and Examination of BC₃," C. E. Crossland, P.A. Thrower, and L. E. Jones, *Extended Abstracts 21st Biennial Conference on Carbon*, Buffalo, NY, 541-543, (1993).
 33. "The Influences of Substitutional Boron on Carbon-Carbon Composite Reactivity and Microstructure," C. E. Crossland and L. E. Jones, Proceedings CARBON '92 Deutsche Kermische Gesellschaft, Essen, Germany, Paper H21, 863-5 (1992).
 34. "The Structure and Oxidation Behavior of a Novel Carbon Compound, BC₃," L. E. Jones, D. A. Fecko and P. A. Thrower, Proceedings CARBON '92 , Deutsche Kermische Gesellschaft, Essen, Germany, Paper P- G54, 917-19 (1992).
 35. "Creep and Rupture Behavior of Single Crystal Sapphire Filaments," L. E. Jones, S. A. Newcomb, and R. E. Tressler, *Proceedings of 3rd NASA HITEMP Review*, Paper 47-1, NASA CP-10051, Cleveland, OH, (1990).
 36. "Boron in Graphite - Effects on Properties," P. A. Thrower and L. E. Jones, *International Symposium on Carbon - New Processing and New Applications*, Tsukuba TANSO, Japan, Vol. 1, 264-67 (1990).

37. "Creep of Ceramic Fibers" R. E. Tressler, L. E. Jones and S. Sabol, *Proceedings 2nd NASA HITEMP Review*, Paper 18 -1, NASA CP-10039, Cleveland, OH (1989).
38. "The Influence of Carbon Fiber Microstructure on Oxidation Behavior and Interfacial Adhesion in a Structural Composite," L. E. Jones and P. A. Thrower, *Extended Abstract 18th Biennial Conference on Carbon*, Worcester, MA, 306 (1987).
39. "The Effect of Boron on Carbon Fiber Oxidation," L. E. Jones and P. A. Thrower, *Extended Abstract 18th Biennial Conference on Carbon*, Worcester, MA, 468 (1987).
40. "Hybrid Composites - An Approach to Aircraft Structures in a High-Temperature Hypersonic Environment," D. M. Carper, L. E. Jones and W. J. Kearney, *3rd National Aero-Space Plane Technology Symposium*, Paper No. 67 (1987).
41. "Influence of Carbon Fiber Microstructure on Carbon-Carbon Oxidation," L. E. Jones, *Proceedings 9th JANNAF Rocket Nozzle Technology Meeting*, NASA Marshall Space Flight Center, Huntsville, AL (1987).
42. "Pitch and PAN Fiber Reactivity and Microstructure," L. E. Jones and P. A. Thrower, *Proceedings CARBON '86*, International Conference on Carbon, Deutsche Kernische Gesellschaft, Baden-Baden, Germany, 561(1986).
43. "Reactivity and Microstructure of Carbon-Carbon Composites," L. E. Jones, P. A. Thrower, and P. L. Walker, Jr., *Proceedings CARBON '84*, International Conference on Carbon, Bordeaux, France, 200 (1984).
44. "Microscopic Studies of Carbon Composites," P. A. Thrower and L. E. Jones, *Extended Abstracts 16th Conference on Carbon*, San Diego, CA., 503 (1984)
45. "Reactivity as Related to Structure of 3D Radially Pierced Carbon-Carbon Composites," L. E. Jones, P. A. Thrower, and P. L. Walker, Jr., *Proceedings JANNAF Rocket Nozzle Technology Meeting*, U.S. Air Force Academy, Colorado Springs, CO (1983).
46. "Recession of Carbon-Carbon Nozzles Under Simulated Rocket Motor Operating Conditions," K. K. Kuo, P. L. Walker, Jr., P. A. Thrower, S. T. Keswani and L. E. Jones, *Proceedings JANNAF Rocket Nozzle Technology Meeting*, Naval Postgraduate School, Monterey, CA. (1982).

NASA and Air- Force Technical Reports

1. "An Investigation of BC3 - A New Material with the Graphite Structure," Hach, C. T., Jones, L. E., Crossland, C. E., and Thrower, P. A., AFOSR-TR F49620-92-005, AFOSR/NE, Bolling AFB, DC, February 1995.
2. "Pre-ceramic Polymer Precursors for the Manufacturing of Continuous Fiber Reinforced Ceramic Matrix Composites," Final Report - Phase I, Knolls Atomic Power Laboratory TR , Contract No. NPD 93-3724-SJ Item 2, January 1995.
3. "Reticulated Ceramic Inserts (Core Busters) for Ceramic Radiant Tube Applications," L. E. Jones, J. Q. Hu, and M. Eber, Final Technical Report to NYSERDA, Contract No. 4018-IABR-IA-95, May 1995.

4. "Synthesis of Carbon Filament Reinforced Aluminum Matrix Composites," L. E. Jones, Final Technical Report to the Gas Research Institute, GRI Contract No. 5090-298-2043, TR No. GRI-94/0134, February 1994.
5. "The High-Temperature Creep Behavior of Oxides and Oxide Fibers," L. E. Jones and R. E. Tressler, NASA TR 187060, 1-111, January 1991.
6. "Recession of Graphite Nozzles Under Rocket Motor Operating Conditions: Vol. II, Pre- and Post-Fired Sample Characterization of Graphite Nozzle Materials," Final Report AFOSR, Edwards Air Force Base, CA, AFRPL TR-8409 Contract No. F04611-81-0067, Nov. 1984.

PRESENTATIONS

1. *"Phase Stability and Boundary Structure of Unique Iron-based Amorphous Metal Composites: Processing and Modeling,"* O.A. Graeve, J.P. Kelly, H. Fathi, and L.E. Jones, 10th Pacific Rim Conference on Ceramic and Glass Technology, San Diego, CA., June 2-7, 2013.
2. *"Modeling and Design of Fe-based Amorphous Alloys with High Tungsten Content,"* H. Fathi, J.P. Kelly, L.E. Jones, and O.A. Graeve, Materials Science and Technology 2013 Conference & Exposition, Quebec, Canada, October 27-31, 2013.
3. *"Phase Stability and Boundary Structure of Unique Nanoparticle-Reinforced Iron-Based Amorphous Metal Composites: Processing and Modeling,"* O.A. Graeve, M.S. Saterlie, P.J. Colmenares, S.T. Mixture, H. Fathi, and L.E. Jones, Materials Research Society Fall 2012 Meeting, Boston, MA., November 25-30, 2012.
4. *Invited Lecture: "In Order of Structure: A Story of Ceramics at Alfred University"* A Symposium in Honor of Dr. Kazuo Inamori on the Dedication of the Inamori Kyocera Fine Ceramics Museum at Alfred University, October 15, 2011.
5. *Chaired Professors Lecture, "Nanostructure in a Materials World: Boron-Rich Carbon Nanotubes and Fibers"*, Smith College, March 12, 2009.
6. *Invited Paper: "Emissions Produced During Glass Melting and Fining,"* 8th Pacific RIM Conference on Ceramic and Glass Technology, Vancouver, B.C., July 2009.
7. *Invited Paper, "What do we mean by Engineering/Liberal Arts Integration?" Symposium on Engineering and Liberal Education,* Union College, NY, May 9-10, 2008.
8. *Invited Opening Plenary Address – International Conference, L. E. Jones "The Structure of Carbon Solids"* CARBON 2007, Seattle, WA July 16, 2007.
9. *"Structure and Structure-Related Chemistry of Boron Rich Carbon Nanofibers and Tubes"* Novel Structures and Forms of Carbon – Control of Structures and Properties – 4, B092 1390, July 17, 2007 CARBON 2007, Seattle WA
10. *"Engineering in Context"* A Women in the Academy Lecture sponsored by the Women's

- Faculty Caucus at Montana State University. Bozeman, MT, October 11, 2007.
11. "*X-Ray Diffraction of Nuclear-grade Graphite*," *Energy Symposium: Degradation of Materials for Application in Nuclear Power*," The American Ceramic Society 109th Meeting, MS&T, Detroit, MI, September 2007.
 12. "*The Art of Saying Yes: The Role of Service in Shaping Character*," American Society of Mechanical Engineers – Annual Meeting – Chicago "Tips for Tenure and Promotion" November 7, 2006
 13. "Crystallization of Boron-rich Crystals from High Temperature Copper Solutions," Meeting of Materials Research Society, Boston, MA., 2005
 14. "*Quantitative Determination of Free Carbon and Boron in B4C by Thermal Analytical Methods*," C.R. Maier, L. E. Jones, Characterization for Process Control in 21st Century Ceramic Manufacturing, Symposium 16 Paper AM-S16-21-2003, 105th Meeting of the American Ceramic Society, Nashville, TN, April 27-30, 2003.
 15. *Invited Paper*: "Research as an Educational Tool: Insights through the Lens of Carbon Science," McMahon Symposium Series – Emerging Priorities in Materials Science, Alfred, NY 2003
 16. "Crystallization of Boron-rich Crystals from High Temperature Copper Solutions," C.R. Maier and L.E. Jones, 2005 Meeting of Materials Research Society, Boston, MA.
 17. "Quantitative Determination of Free Carbon and Boron in B4C by Thermal Analytical Methods," C.R. Maier, L. E. Jones, Characterization for Process Control in 21st Century Ceramic Manufacturing, Symposium 16 Paper AM-S16-21-2003, 105th Meeting of the American Ceramic Society, Nashville, TN, April 27-30, 2003.
 18. "Analysis of Emissions from Nitrate Containing Glasses," L.E. Jones, Glass and Optical Materials Division, Paper AM-GOMD-34-2003, 105th Meeting of the American Ceramic Society, Nashville, TN, April 27-30, 2003.
 19. "The Oxidation Behavior of C6B Coated Carbon Fibers, L.Wang and L.E. Jones, Innovative Processing and Synthesis of Ceramics, Glasses, and Composites, Paper AM-S21-46-2003, 105th Meeting of the American Ceramic Society, Nashville, TN, April 27-30, 2003.
 20. "The Influence of Aluminum Phosphates on Carbon-Carbon Composite Oxidation," L.E.Jones and C.R. Maier, in Environmental Barrier Coatings – ECD-S2-43-2003, 27th Annual Cocoa Beach Meeting, Am. Ceramic Society, January 30, 2003.
 21. "Research as an Educational Tool: Insights through the Lens of Carbon Science," L.E. Jones, McMahon Symposium Series-Emerging Priorities in Materials Science, Alfred, NY, October 2002.
 22. "The Structure of Solids," L.E. Jones, The Josephine Gitter Fellows Program, Alfred University, August 2002.

23. "The Structure of Novel Carbon C6B Nanotubes," L.E. Jones and L. Wang, at CARBON '03, Oviedo, SPAIN, sponsored by GEC The Spanish Carbon Group, July 6-10, 2003.
24. "The Influence of Aluminum Phosphates on Carbon-Carbon Composite Oxidation," L.E. Jones and C.R. Maier, CARBON '03, Oviedo, SPAIN, sponsored by GEC The Spanish Carbon Group, July 6-10, 2003.
25. "Glass Melting and Processing: Environmental Issues," L.E. Jones, NSF Industry-University Center for Glass Research, Semiannual Meeting Ft. Lauderdale, FL, January 13, 2003.
26. "Research as an Educational Tool: Insights through the Lens of Carbon Science," McMahon Symposium Series -Emerging Priorities in Materials Science, Alfred University, October 2002.
27. "The Structure of Solids" *The Josephine Gitter Fellows Program*, Alfred University, August 2002
28. "Analysis of Emissions from Nitrate Containing Glasses," S. Luo and L. E. Jones, Symposium D-6. Science and Technology in Addressing Environmental Issues in the Ceramic Industry, Session II Paper AMD.6-B-01-2002, 104th Meeting of the American Ceramic Society, April 30, 2002.
29. "Emissions Produced during Glass Manufacturing," L. E. Jones, Symposium D-6. Science and Technology in Addressing Environmental Issues in the Ceramic Industry, Session II Paper AMD.6-B-03-2002, 104th Meeting of the American Ceramic Society, April 30, 2002.
30. "The Influence of Aluminum Phosphates on Graphite Oxidation," C.R. Maier and L.E. Jones, Poster 2.01, International Conference on Carbon, Basic Carbon Science Session, CARBON '01, July 16, 2001.
31. "The Oxidation of Diamond," J. Y. Howe and L. E. Jones, Paper 6.2, in Basic Reactions and Computational Chemistry, CARBON '01, Lexington, KY., July 14, 2001.
32. "The Influence of Aluminum Phosphates on Graphite Oxidation," , C. Maier and L. E. Jones, Paper P2.01 in Basic Carbon Science, CARBON '01, Lexington, KY, July 15, 2001
33. "Influence of Sulfur on Carbonization of Pitch Binders for Structural Carbon Composites," A.V. Kropachev and L. E. Jones, Paper 19.6 in Mesophase/Carbonization, CARBON '01, Lexington, KY, July 15, 2001
34. "A Room With a View....." Phi Kappa Phi Induction Dinner, Spring 2001
35. "An AES and XPS Study of CVD and Natural Diamond Surfaces," J.Y. Howe and L.E. Jones, 24th Biennial Conference on Carbon, College of the South, Charleston, SC, July 1999.

36. "An Auger and XPS Study on CVD and Natural Diamonds," J. Y. Howe and L. E. Jones, Materials Research Society Fall 99, Symposium U: Amorphous and Nanostructured Carbon, Boston, MA, November 1999.
37. "Emissions Release from Sodium Sulfate Decomposition in the Presence of Carbon" T.W. Samadhi and L. E. Jones, Symposium D2: Science and Technology in Addressing Environmental Issues in the Ceramic Industry, 102nd Annual Meeting of the American Ceramic Society, St. Louis, MO, May 2000.
38. "Influence of Sulfur Additive on the Morphology of Pitch Coke," A. V. Kropachev and L. E. Jones, Symposium C5, Polymers in Particulate Systems: Properties and Applications, 102nd Annual Meeting of the American Ceramic Society, St. Louis, MO, May 2000.
39. "Chemical Modifications of the α -Al₂O₃ Surface," F. Wiener and L. E. Jones, Symposium C4, Innovative Processing and Synthesis of Ceramics, Glasses and Composites, 102nd Annual Meeting of the American Ceramic Society, St. Louis, MO, May 2000.
40. "Oxidation of CVD Diamond Films: An AES and XPS Approach," Symposium A2. Advances in Dielectric Materials and Multilayer Electronic Devices, 102nd Annual Meeting of the American Ceramic Society, St. Louis, MO, May 2000.
41. Ceramograph Competition "Oxidation of CVD Diamond" with Oak Ridge National Labs 102nd Annual Meeting of the American Ceramic Society, St. Louis, Entry is outside our labs.
42. "The Role of Carbon in Sodium Sulfate Decomposition in Glass Batching," Symposium I: Waste Management Science and Technology in the Ceramic And Nuclear Industries, , 101st Annual Meeting of the American Ceramic Society, Indianapolis, IN, April 25, 1999
43. "Oxidation of CVD Diamond," J. Y. Howe and L. E. Jones, Novel Carbons, Science and Technology of Carbon, Eurocarbon '98, Strasbourg, France, 699 (1998).
44. "Structure Refinement of Graphite by Reitveld Method," J. Y. Howe, S.T. Mixture and L. E. Jones, , Novel Carbons, Science and Technology of Carbon, Eurocarbon '98, Strasbourg, France, 821 (1998).
45. "An Auger Electron Spectroscopy (AES) and X-Ray Photoelectron Spectroscopy (XPS) Study of CVD and Natural Diamond," J.Y. Howe and L.E. Jones, *Carbon '99*, Charleston, S.C. Volume II, 554(1999).
46. "Environmental Aspects of Advanced Glass Manufacturing," Invited Paper: Schott Glass Works, Mainz, Germany, March 1999, during sabbatical leave
47. "Oxidation of Structural Carbon Materials: Strategies in Oxidation Protection," Invited Paper: Air Force Materials Lab, Dayton, OH, May 1999.
48. "Boron Inhibition of Carbon Oxidation: Structural Perspective," Applied Sciences, Dayton, OH. May 1999.

49. "A Simultaneous Study of Batch Melting and Pollutants Produced During the Manufacturing of Glass," E.D. Larson, L.E. Jones, and A.G. Clare, Paper SV-010-97, Environmental Issues in Ceramic Manufacturing, Monitoring and Control of Air Emissions Session; 99th Meeting of the American Ceramic Society, May 5, 1997.
50. "Density Measurements for Silicate glasses at High-Temperatures," A. Kucuk, A. G. Clare, and L. E. Jones, Paper G-018-97, Glass and Optical Materials Division, Issues in Glass Manufacturing Session, 99th Meeting of the American Ceramic Society, May 5, 1997.
51. "Surface Tension of Silicate Glasses at High-Temperature Using Sessile Drop Technique," A. Kucuk, A. G. Clare, and L. E. Jones, Paper G-016-97, Glass and Optical Materials Division, Issues in Glass Manufacturing Session, 99th Meeting of the American Ceramic Society, May 5, 1997.
52. "Environmental Aspects of Advanced Glass Manufacturing," L.E. Jones and T.W. Samadhi, Paper SX-005-98, Environmental Technology and Air Emissions Session, Science and Technology in Addressing Environmental Issues in the Ceramic Industry, 100th Annual Meeting of The American Ceramic Society, Cincinnati, OH, May 4, 1998.
53. "Bonding and Structure of Phenol Formaldehyde Resin," K. Johnson and L. E. Jones, Poster SVIIP -058-97, Glasses, Ceramics and Composites Session, 99th Meeting of the American Ceramic Society May 6, 1997.
54. "SiC Processed from Pre ceramic Polymers: An Investigation of the B-Si-C System," M. Eber and L. E. Jones, Paper SIII-033-97, Ceramic Matrix Composites, Silicon Carbide Composites Session, 99th Meeting of the American Ceramic Society, May 7, 1997.
55. "Influence of Boron on Structure and Oxidation Behavior of Graphite Fiber (P120)," Fiber and Composites Sessions, 23rd Biennial Conference on Carbon, The Pennsylvania State University, State College, PA, July 17, 1997.
56. "Phenol-Formaldehyde Resin Structure for the Synthesis of Glassy Carbon," K. K. Johnson and L. E. Jones, Proceedings 23rd Biennial Conference on Carbon, The Pennsylvania State University, State College, PA, 478-9 (1997).
57. "Oxidation of CVD Diamond," J. Y. Howe and L. E. Jones, Novel Carbons, Science and Technology of Carbon, Eurocarbon '98, Strasbourg, France, 699 (1998).
58. "Structure Refinement of Graphite by Reitveld Method," J. Y. Howe, S.T. Mixture and L. E. Jones, , Novel Carbons, Science and Technology of Carbon, Eurocarbon '98, Strasbourg, France, 821 (1998).
59. "Ceramic Emissions Abatement Devices for Combustion Applications," Invited Paper, Nuclear and Glass Division Meeting of Am. Ceramic Soc., San Antonio, TX., October 29-31, 1996.
60. "A Simultaneous Study of Batch Melting and Pollutants Produced During the Manufacturing of Glass," E.D. Larson, L.E. Jones, and A.G. Clare, Paper SV-010-97, Environmental Issues in Ceramic Manufacturing, Monitoring and Control of Air Emissions Session; May 5, 1997.

61. "Density Measurements for Silicate glasses at High-Temperatures," A. Kucuk, A. G. Clare, and L. E. Jones, Paper G-018-97, Glass and Optical Materials Division, Issues in Glass Manufacturing Session, May 5, 1997.
62. "The Performance and Application of Carbon: A Structural Perspective" 1996 -97 *GRAFFIN LECTURE SERIES. Oak Ridge National Laboratory, March 4, 1997. Tim Burchell Contact*
63. "The Performance and Application of Carbon: A Structural Perspective" 1996 -97 *GRAFFIN LECTURE SERIES. Chemical and Ceramic Engineering Department, Clemson University, March 6, 1997. Prof. Dan Edie Contact*
64. "The Performance and Application of Carbon: A Structural Perspective" 1996 -97 *GRAFFIN LECTURE SERIES. American Society of Metals – Western NY Chapter, March 19, 1997.*
65. "The Performance and Application of Carbon: A Structural Perspective" 1996 -97 *GRAFFIN LECTURE SERIES. Union Carbide Corporation, March 24, 1997. Dr. Rajesh Tiwari Contact*
66. "The Performance and Application of Carbon: A Structural Perspective" 1996 -97 *GRAFFIN LECTURE SERIES. Fuel Science and Energy Department, Penn State, April 10, 1997.*
67. "The Performance and Application of Carbon: A Structural Perspective" 1996 -97 *GRAFFIN LECTURE SERIES. Knolls Atomic Power Laboratory, April 17, 1997. Wayne Wales Contact*
68. "Surface Tension of Silicate Glasses at High-Temperature Using Sessile Drop Technique, A. Kucuk, A. G. Clare, and L. E. Jones, Paper G-016-97, Glass and Optical Materials Division, Issues in Glass Manufacturing Session, May 5, 1997.
69. "Bonding and Structure of Phenol Formaldehyde Resin," K. Johnson and L. E. Jones, Poster SVIIP -058-97, Glasses, Ceramics and Composites Session, May 6, 1997.
70. "SiC Processed from Pre ceramic Polymers: An Investigation of the B-Si-C System," M. Eber and L. E. Jones, Paper SIII-033-97, Ceramic Matrix Composites, Silicon Carbide Composites Session, May 7, 1997.
71. "Influence of Boron on Structure and Oxidation Behavior of Graphite Fiber (P120)," Fiber and Composites Sessions, 23rd Biennial Conference on Carbon, The Pennsylvania State University, State College, PA, July 17, 1997.
72. "Phenol-Formaldehyde Resin Structure for the Synthesis of Glassy Carbon," K. K. Johnson and L. E. Jones, Proceedings 23rd Biennial Conference on Carbon, The Pennsylvania State University, State College, PA, 478-9 (1997).

73. "Aspects of Sintering Barium Hexaferite with SiO_2 , Al_2O_3 , CaCO_3 and $\text{Y}_3\text{Fe}_5\text{O}_{12}$ Additions for Microwave Applications," J. G. Fagan, R. L. Snyder, C. Hach, and L. E. Jones, Electronics Division - Microwave Ceramics, Paper E-81-96, 98th Annual Meeting of the American Ceramic Society, Indianapolis, IN, 16 April 1996.
74. "Ceramic Emissions Abatement Devices for Combustion Applications," L. E. Jones, J. Q. Hu, M. Eber and L. Pennisi, International Symposium on the Environmental Issues and Waste Management Technologies in Ceramic and Nuclear Industry - Environmental Solutions Session, Paper SXIII-28-96, 98th Annual Meeting of the American Ceramic Society, Indianapolis, IN, 15 April 1996.
75. "Behavior of Reticulated Oxide Bonded Silicon Carbide (OBSiC) in Combustion Environments," M. Eber and L. E. Jones, Engineering Ceramics Division - Oxidation, Corrosion and Phase Stability, Paper C-32-96, 98th Annual Meeting of the American Ceramic Society, Indianapolis, IN, 16 April 1996.
76. "Determination of Density and Surface Tension of Molten Glass by the Sessile Drop Method," A. G. Clare, C. A. Landcastle and L. E. Jones, Phillips - CGR - TNO Seminar, Properties of Molten Glass, Eindhoven, Netherlands, April 25 -26, 1996.
77. "Oxidation Inhibited BCx: Chemistry and Structure," L. E. Jones, 22nd Biennial Conference on Carbon, University of California - San Diego, July 16 - 21, 1995.
78. "Gender Equality in the Classroom," L. E. Jones, S. Morehouse, K. Porter, and B. Prophet, Invited Panel Discussion - Women's Studies Round-Table, Women's History Month, March 1996.
79. "Improved Heat Transfer and Emissions Abatement" Invited Talk, Session III - *Environmental Control*, Symposium on Electrical and Electronic Materials for Energy Related Applications -- Status of Business and Technology in New York State, Rochester, NY, October 23, 1995.
80. "High-Temperature Density/Wetting Behavior of Molten Glass Using the Sessile Drop Technique," A. G. Clare and L. E. Jones, Glass Melting Processes Conference, NSF Industry-University Center for Glass Research and Glass Processing Forum of Japan, The United Nations University, Tokyo, Japan, October 18, 1995.
81. "Evolution of Pollutant Species from Glass Batches During Processing," L. E. Jones and A. G. Clare, Glass Melting Processes Conference, NSF Industry-University Center for Glass Research and Glass Processing Forum of Japan, The United Nations University, Tokyo, Japan, October 18, 1995.
82. "The Practical Politics of the Transformational Classroom," L. E. Jones, S. Morehouse, K. Porter, and B. Prophet, Invited Panel Discussion, American Association of University Women - Western NY Chapter, September 1995.
83. "The Practical Politics of the Transformational Classroom," L. E. Jones, S. Morehouse, K. Porter, and B. Prophet, Panel, American Association of University Women Pre-Convention College/University Symposium, Orlando, FL, June 1995.

84. "High-Temperature Density/Wetting Behavior of Molten Glass Using the Sessile Drop Technique." A. G. Clare and L. E. Jones, Joint Meeting of the Industry-University Center for Glass Research (CGR) and the Huettentechnische Vereinigung der Deutschen Glasindustrie (HVG), Wurzburg, Germany, May 19 - 20, 1995.
85. "Computer Simulation of the Influence of Boron on the Structure of BC_x," SVII-62-95, C. T. Hach, S. E. Hill and L. E. Jones, Computational Modelling of Materials and Processing Symposium - Structure and Phase Equilibria, I, 97th Annual Meeting of the American Ceramic Society, Cincinnati, OH, April 30 - May 3, 1995.
86. "Reticulated Ceramic Inserts for Ceramic Radiant Tube Applications," SXI-44-95, J. Q. Hu and L. E. Jones, International Symposium on the Environmental Issues and Waste Management Technologies in Ceramic and Nuclear Industry, 97th Annual Meeting of the American Ceramic Society, Cincinnati, OH, April 30 - May 3, 1995.
87. "Reduction of Hazardous Air Pollutants from Combustion and Incineration Processes Using Reticulated Ceramics, SXI-47-95, M. Ingram and L. E. Jones, International Symposium on the Environmental Issues and Waste Management Technologies in Ceramic and Nuclear Industry, 97th Annual Meeting of the American Ceramic Society, Cincinnati, OH, April 30 - May 3, 1995.
88. "The Oxidation Behavior of BC_x Coated Carbon Fibers," SII-30-95, C. T. Hach and L. E. Jones, Ceramics in Adverse Environments Symposium - Performance in Adverse Environments; >500 °C, 97th Annual Meeting of the American Ceramic Society, Cincinnati, OH, April 30 - May 3, 1995.
89. "Influence of Combustion Environments On Reticulated Silicon Carbide Ceramics," SIIP-4-95, M. Eber and L. E. Jones, Ceramics in Adverse Environments Symposium - Performance in Adverse Environments; < 500 °C, 97th Annual Meeting of the American Ceramic Society, Cincinnati, OH, April 30 - May 3, 1995.
90. "Feminist Teaching as a Transformative Act" L. E. Jones, S. Morehouse, K. Porter, and B. Prophet, Women's Studies Roundtable, Alfred University, March 27, 1995.
91. "Environmental Issues and the Impact of the Clean Air Act on the Glass Industry," L. E. Jones, Invited Talk, 1994 Fall Meeting of the Glass and Optical Materials Division, Columbus, OH., November 1994.
92. "Role of Boron in Covalent Solids" L. E. Jones, Invited Talk, Center for Energy Research, University of Kentucky, Lexington, November 1994.
93. "NO_x Emissions from Silica Glass Batch," L. E. Jones, Invited Talk - Special European Meeting of the Industry-University Collaborations: Advances in Controlling NO_x in Glass Making, Paris, Oct. 10 - 12, 1994.
94. "Environmental Issues and the Impact of the Clean Air Act on the Glass Industry," L. E. Jones and M. B. Ingram, Invited Talk, American Ceramic Society Fall Meeting, Ceramic Manufacturers and Suppliers Workshop; Louisville, Kentucky; September 24-29, 1994.
95. "Potential Applications of BC_x," L. E. Jones, Invited Talk - AFOSR Ceramic Materials Program Review, Houston Woods - U. Miami of Ohio, May 19-20, 1994.

96. "High-Temperature Physical Properties of Glass," G-8-94, Glass Processing Session, 96th Annual Meeting of the American Ceramic Society, Indianapolis, IN, April 24 - 28, 1994.
97. "Polymer Precursors for the manufacturing of Continuous Fiber Reinforced Ceramic Matrix Composites," A. C. Gheorghiu and L. E. Jones, SIIP-27-94, Society, Indianapolis, IN, April 24 - 28, 1994.
98. "Women in the Academy," V. Eaklor, F. Viggiani, S. Morehouse, L.E. Jones and B. Prophet, LAS Freshmen Forum, Women's History Month at Alfred University, March 24, 1994.
99. "Women, Power and College," V. Eaklor, F. Viggiani, S. Morehouse, L. E. Jones, and B. Prophet, Women and Power Conference V, Sponsored by the University of Pittsburgh at Bradford, Olean, NY, March 19, 1994.
100. "Evolution of Effluent Gas and Particulate Emissions as Influenced by Glass Manufacturing Conditions," Research Presentation, Center for Glass Research, L. E. Jones and A. G. Clare, Washington, D.C., January 6 - 9, 1994.
101. "Analysis of the Structure and Oxidation Behavior of the Novel Compound, BC₃," C. T. Hach and L. E. Jones, Proc. 18th Annual Cocoa Beach Conference on Composites, Materials, and Structures - Restricted Sessions, Advanced Composites Working Group, January 9 -14, 1994.
102. "Halogenated Glass Protection Systems for Structural Carbon-Carbon Composites," N. E. LoBiondo, L. E. Jones and A. G. Clare, 18th Annual Cocoa Beach Conference on Composites, Materials, and Structures - Restricted Sessions, Advanced Composites Working Group, January 9 - 14, 1994.
103. "High-Temperature Oxidation Behavior of a B₄C Matrix Inhibited Carbon-Carbon Composite in Wet and Dry Oxygen," L. E. Jones , 18th Annual Cocoa Beach Conference on Composites, Materials and Structures - Restricted Sessions, Advanced Composites Working Group, January 9 - 14, 1994.
104. Characterization of BC₃ and The Interfaces Between Graphite and SiO₂ Films Using STM and HREELS," D. Jiron, L. E. Jones, and D. Bonnell, Fall Materials Research Society Meeting, Boston ,MA, November 1993.
105. "Novel Carbon Materials and Their Composites," L. E. Jones, Invited Talk -Research Seminar Series Sponsored by the Center for Advanced Ceramic Processing, Clarkson University, November 22, 1993.
106. "Novel Forms of Carbon," L. E. Jones, Invited Talk - Research Presentation, Ceramics Afternoon, Cornell University, November 5, 1993.
107. "BC_x, A New Graphite like Material," L. E. Jones, AFOSR-ML Workshop on Carbon-Carbon Composites, Wright-Patterson Air Force Base, Multidisciplinary University Research Initiative Discussions, June 29 - 30, 1993.

108. "Halogenated Glass Protection Systems for Structural Carbon-Carbon Composites," N. E. LoBiondo, L. E. Jones and A. G. Clare, 21st Biennial Conference on Carbon, Buffalo, NY, June 13 - 18, 1993.
109. "High Temperature Oxidation of Matrix Inhibited Carbon-Carbon Composites in Wet and Dry Oxygen," L. E. Jones, 21st Biennial Conference on Carbon, Buffalo, NY, June 13 - 18, 1993.
110. "Characterization of the Structure and Chemistry of BC₃," C.T. Hach and L.E. Jones, 21st Biennial Conference on Carbon, Buffalo, NY, June 13 - 18, 1993.
111. "Synthesis and Examination of BC₃," C. E. Crossland, P.A. Thrower, and L. E. Jones, 21st Biennial Conference on Carbon, Buffalo, NY, June 13 - 18, 1993.
112. "Evolution of Effluent Gas and Particulate Emissions as Influenced by Glass Manufacturing Conditions," L. E. Jones and A. G. Clare, Research Presentation, Center for Glass Research, Corning, N.Y., June 1993.
113. "Evolution of Effluent Gas and Particulate Emissions as Influenced by Glass Manufacturing Conditions," G-2-93, D. Gerling, L. E. Jones and A. G. Clare, Glass and Optical Materials Division, Session: Glass Manufacturing I, 95th Annual Meeting of the American Ceramic Society, April 19, 1993.
114. "An Investigation of the Structure and Physical Properties of the Novel Material, BC₃," Paper SXIV-47-93, C. T. Hach and L. E. Jones, Processing and Microstructure-Property Relations in Novel Materials Symposium XIV, Session: Novel Materials, 95th Annual Meeting of the American Ceramic Society, April 22, 1993.
115. "Halogenated Glasses as Oxidation Inhibitors for Carbon-Carbon Composites," Paper SIV-35-93, N. LoBiondo and L. E. Jones, Chemical Vapor Deposition of Ceramics Symposium, Session: Fibers, Interfaces and Corrosion, 95th Annual Meeting of the American Ceramic Society, April 21, 1993.
116. "Growth of Carbon Filaments from Natural Gas for the Reinforcement of Aluminum Alloys," L. E. Jones, A. Piotrowski and R. E. Tressler, ALCOA/GRI contractors meeting, The Pennsylvania State University, University Park, PA., March 2, 1993.
117. "Evolution of Effluent Gas and Particulate Emissions as Influenced by Glass Manufacturing Conditions," L. E. Jones and D. Gerling, Research Presentation, Center for Glass Research, Pittsburgh, PA, January 10-12, 1993.
118. "The Influence of Substitutional Boron on Carbon-Carbon Composite Reactivity and Microstructure," L. E. Jones and C. Crossland, P-G54, Fiber and Composites Section, Carbon '92 International Conf., Essen, Germany, 22-26 June, 1992.
119. "The Structure and Oxidation Behavior of a Novel Carbon Compound, BC₃," Paper H21, L. E. Jones, D. Fecko and P. A. Thrower, Industrial Products: Manufacture, Testing, Characterization, and Application Section, Carbon '92 International Conf., Essen, Germany, 22-26 June, 1992.

120. "Evolution of Effluent Gas and Particulate Emissions as Influenced by Glass Manufacturing Conditions," L. E. Jones, Research Presentation, Center for Glass Research, New Orleans, LA, June 10-12, 1992.
121. "Evolution of Effluent Gas and Particulate Emissions as Influenced by Glass Manufacturing Conditions," G-2-93, D. Gerling, L. E. Jones and A. G. Clare, Glass and Optical Materials Division, Session: Glass Manufacturing I, 95th Annual Meeting of the American Ceramic Society, April 19, 1993.
122. "An Investigation of the Structure and Physical Properties of the Novel Material, BC₃," Paper SXIV-47-93, C. T. Hach and L. E. Jones, Processing and Microstructure-Property Relations in Novel Materials Symposium XIV, Session: Novel Materials, 95th Annual Meeting of the American Ceramic Society, April 22, 1993.
123. "Halogenated Glasses as Oxidation Inhibitors for Carbon-Carbon Composites," Paper SIV-35-93, N. LoBiondo and L. E. Jones, Chemical Vapor Deposition of Ceramics Symposium, Session: Fibers, Interfaces and Corrosion, 95th Annual Meeting of the American Ceramic Society, April 21, 1993.
124. "An Investigation of BC₃ - A New Material with the Graphite Structure," L. E. Jones, AFOSR Molecular Dynamics and Ceramics Contractors' Conference, National Academy of Sciences, Washington, DC, 25 -29 October, 1992.
125. "Novel Carbon Materials and Their Composites," L. E. Jones, Baltimore - Washington Section of the American Ceramics Society, 14 July 1992.
126. "Protection of Carbon-Carbon Composites from High-Temperature Oxidizing Conditions," L. E. Jones, New York State Science and Technology Foundation Site Visit, Alfred University, 23-24 November 1992
127. "High-Temperature Reactivity of Matrix Inhibited Carbon-Carbon Composites, D. Sperber and L. E. Jones, 2-CP-92, "Engineering Ceramics Division: Carbon-Based Materials Session," 94th Annual Meeting of the American Ceramics Society, Minneapolis, MN, April 14, 1992.
128. "The Influence of Substitutional Boron on Carbon-Carbon Composite Reactivity and Microstructure," C. E. Crossland and L. E. Jones, 3-CP-92, 94th Annual Meeting of the American Ceramics Society, Minneapolis, MN, April 14, 1992.
129. "Oriented Microchannel Composites," E. Trumbauer, L. Jones and J. Hellmann, 94th Annual Meeting of the American Ceramics Society, Minneapolis, MN, April 14, 1992.