

## CURRICULUM VITA

### Henry J. Neeman, University of Oklahoma

Assistant Vice President, Information Technology - Research Strategy Advisor  
Director, OU Supercomputing Center for Education & Research (OSCER)  
Associate Professor, Gallogly College of Engineering  
Adjunct Associate Professor, School of Computer Science  
One Partners Place Suite 2600, 350 David L. Boren Blvd., Norman OK 73019  
405-325-5386, 405-325-7181 (fax), hneeman@ou.edu  
<http://hneeman.oscer.ou.edu/>

### PROFESSIONAL PREPARATION

University at Buffalo, State University of New York	Computer Science	B.S.	1987
University at Buffalo, State University of New York	Statistics	B.A.	1987
University at Buffalo, State University of New York	Mathematics	minor	1987
University of Illinois at Urbana-Champaign	Computer Science	M.S.	1990
Thesis advisors: Dennis Gannon, Donald Hearn			
University of Illinois at Urbana-Champaign	Computer Science	Ph.D.	1996
Dissertation advisors: Michael L. Norman (dissertation director), Michael Heath (committee chair)			
Dissertation committee members: Dennis Gannon, Donald Hearn, Faisal Saeed, Paul Saylor			
University of Illinois at Urbana-Champaign	Postdoctoral Research Associate		1996-98
Advisor: Michael L. Norman			

### APPOINTMENTS

8/2014 - present	<b>Adjunct Associate Professor</b> , School of Computer Science, University of Oklahoma (OU), Norman OK
1/2013 - present	<b>Assistant Vice President</b> , Information Technology - Research Strategy Advisor, OU
10/2012 - present	<b>Associate Professor</b> , Gallogly College of Engineering, OU
12/2011 - 1/2013	<b>Executive Director of Research Computing &amp; Services</b> OU Information Technology (IT)
8/2001 - present	<b>Director</b> , OU Supercomputing Center for Education & Research (OSCER), OU IT
1/2000 – 8/2014	<b>Adjunct Assistant Professor</b> , School of Computer Science, OU
8/1998 – 6/2007	<b>Research Scientist</b> , Center for Analysis & Prediction of Storms, OU
5/1996 - 8/1998	<b>Postdoctoral Research Associate</b> National Center for Supercomputing Applications (NCSA) University of Illinois at Urbana-Champaign (UIUC)
5/1993 - 5/1996	<b>Graduate Research Assistant</b> , NCSA, UIUC
8/1987 - 5/1993	<b>Graduate Research Assistant</b> , Center for Supercomputing Research & Development (CSR), UIUC
1/1985 - 8/1987	<b>Undergraduate Researcher/Computer Programmer/Consultant/Teaching Asst</b> Department of Physiology, University at Buffalo, State University of New York

## HIGHLIGHTS

- Experience: 28+ years in HPC and related areas, 15 years as HPC center director
- Graduate research at national supercomputing centers
  - PhD and Postdoctoral research at the National Center for Supercomputing Applications, University of Illinois at Urbana-Champaign (UIUC)
  - MS thesis research at the Center for Supercomputing Research & Development, UIUC
- Grants: Over \$154M as PI, Co-PI, Senior Personnel or Local PI
  - As PI: \$4M, including 2 NSF Major Research Instrumentation (\$1.1M), NSF EPSCoR RII C2
    - Most successful at MRI funding at OU and 2<sup>nd</sup> most successful in OK since OSCER founded
  - As Co-PI: \$2.5M, including NSF PetaScale Applications (\$1.2M)
  - As Senior Personnel: \$33.8M, including NSF EPSCoR RII Track-1 (\$24M), Track-2 (\$6M)
- Publications in several disciplines: Cyberinfrastructure, Cyberinfrastructure education, virus assembly (biophysics), hydrology, chemical engineering, biomedicine, aerospace engineering, tumor invasion modeling, meteorology, scientific visualization.
  - Awarded **“Best Paper: Education, Outreach, Training”** (with co-authors) at TeraGrid2008 and TeraGrid2010 conferences.
- Education Initiatives
  - **“Supercomputing in Plain English”** lecture series: Developed and delivered biennially, so far to a total of over 2000 people at 362 academic and non-academic institutions in 51 US states and territories and 17 other countries.
  - Frequent teaching for OU’s School of Computer Science.
- Faculty/Staff Development: Co-taught and hosted faculty workshops on parallel computing sponsored by, and materials adopted by, the National Computational Science Institute, the Linux Clusters Institute and the SC supercomputing conference series; hosted workshops for the Virtual School for Computational Science & Engineering, Software Carpentry.
- Oklahoma Cyberinfrastructure Initiative (OCII): Co-founder/co-lead — OCII has been providing to Oklahoma institutions and organizations several kinds of service (resources, dissemination, education, faculty/staff development, outreach, proposal support, technology, workforce development) to 3 PhD granting universities, 20 non-PhD-granting colleges and universities, 10 community colleges, 13 career techs, 2 high schools and 2 school systems – includes 8 minority serving institutions (Historically Black University, 3 Native American Serving Non-Tribal Institutions, 3 Tribal Colleges, 1 other MS) and every public university in the state, plus 48 non-academic organizations.
- Oklahoma Supercomputing Symposium 2002-16, founder/chair—over 3000 attendees from 112 academic institutions in 27 US states and territories, including 61 academic institutions in 14 EPSCoR jurisdictions, among them 36 Oklahoma institutions; 143 private companies; 37 government agencies; 20 non-governmental organizations.
- External Advisory Committees: Internet2 High Performance and Research Computing Program Advisory Group, National Science Foundation Advisory Committee for Cyberinfrastructure, National Science Foundation Office of Cyberinfrastructure Task Force on Cyberlearning and Workforce Development, Arkansas Cyberinfrastructure External Advisory Committee, Samuel Roberts Noble Foundation External Advisory Committee (chair), ID/NM/NV NSF EPSCoR RII Track-2 External Advisory Committee, Pawnee Nation College Technical Advisory Council, University of Central Oklahoma (UCO) Computer Science Advisory Board, UCO Center for Research and Education in Interdisciplinary Computation (CREIC).
- Conference Committees (not Program Committees): SC07-11 Education Committee (SC11 Edu Chair, SC10 Edu Deputy Chair); Oklahoma Supercomputing Symposium 2002-16 Conference Chair; XSEDE’13; IEEE Cluster 2013; Linux Clusters Institute conference 2003-10 (2007 Chair); Great Plains Network Annual Meeting 2008; From Computational Biophysics to Systems Biology 2013.
- “People to Watch 2006” (HPCwire.com)
- Collaborators (on grants, publications, past 5 years): over 200 at over 50 institutions in 25 US states.

## **GRANTS**

### **Total External Funding to Date (as PI, Co-PI, Senior Personnel or Local PI): \$154,314,120**

(NOTE: Dollar figures are from totals for each entire grant, not specifically credited to me.)

2016 - 2021: “XSEDE 2.0: Integrating, Enabling and Enhancing National Cyberinfrastructure with Expanding Community Involvement”

**Local PI** @ OU with PI J. Towns (U Illinois at Urbana-Champaign); Co-PIs K. Gaither (U Texas Austin), R. Roskies (Pittsburgh Supercomputing Center), N. Wilkins-Diehr (San Diego Supercomputer Center); Senior Personnel D. Hart (National Center for Atmospheric Research), D. Lifka (Cornell U), G. Peterson (National Institute for Computational Sciences, U Tennessee Knoxville)

National Science Foundation: \$110,000,000

2016 - 2019: “RCN: Advancing Research and Education Through a National Network of Campus Research Computing Infrastructures - The CaRC Consortium”

**Co-PI** with PI J. Bottum (Clemson U), Co-PIs N. Tsinoremas, M. Livny

National Science Foundation: \$748,490

2016 - 2017: “Cyberinfrastructure Leadership Academy”

**PI** with Co-PIs D. Atkin (Clemson U), J. Bottum (Clemson U), D. Brunson (Oklahoma State U), Stephen Wolff (Internet2)

National Science Foundation: \$49,300

2016: “XSEDE: eXtreme Science and Engineering Discovery Environment (supplement)”

**Local PI at OU** with PI J. Towns (UIUC), Co-PIs K. Gaither (U Texas Austin), R. Roskies (Pittsburgh Supercomputing Center), N. Wilkins-Diehr (San Diego Supercomputer Center), Senior Personnel D. Hart (National Center for Atmospheric Research), D. Lifka (Cornell U), G. Peterson (U Tennessee)

National Science Foundation, \$3,728,775 (total)

2016: “EAGER: Fact-Gathering and Planning for a National-Scale Cyberpractitioner Program”

**Senior Personnel** with PI S. Wolff (Internet2), J. Bottum (Clemson U), D. Atkins (Clemson U)

National Science Foundation, \$41,500

2014 - 2016: “CC\*IIIE Engineer: A Model for Advanced Cyberinfrastructure Research and Education Facilitators”

**PI** with Co-PIs K. Brewster, A. McGovern, H. Severini, T. Yu, Senior Personnel M. Atiquzzaman, G. Creager, B. George, Z. Gray, S. Radhakrishnan, P. Skubic, M. Strauss, X. Xiao, M. Xue (all at OU)

National Science Foundation, \$400,000

2013 - 2015: “CC-NIE Integration: OneOklahoma Friction Free Network”

**PI** with Co-PIs D. Brunson (Oklahoma State U), J. Deaton (OneNet), S. Radhakrishnan (OU), Senior Personnel K. Brewster (OU), M. Elshahed (OSU), F. Fondjo Fotou (Langston U), Z. Gray (OU), P. Hoyt (OSU), G. Louthan (TSC), H. Severini (OU), P. Skubic (OU), J. Snow (Langston U), M. Strauss (OU), X. Xiao (OU), M. Xue (OU), T. Yu (OU)

National Science Foundation, \$499,961

2013 - 2018: “Adapting Socio-ecological Systems to Increased Climate Variability”

**Senior Personnel** with PI James Wicksted (Oklahoma State U), Co-PI A. Knoedler (OU), Senior Personnel J. Brotzge, D. Carlson, J. Friedman, A. Goodin, H. Jenkins-Smith, G. Krutz, Y. Luo, H. McCarthy, R. McPherson, R. Puls, C. Silva, P. Spicer, X. Xiao (all of OU), T. Boyer, D. Brunson, J. Campiche, B. Caniglia, R. Dunlap, D. Engle, S. Fuhlendorf, T. Ochsner, M. Payton, D. Shideler, D. Wilson, C. Zou (all of OSU), R. Bonett, H. Wells (both of U Tulsa), J. Biermacher (Samuel Roberts Noble Foundation)

National Science Foundation, \$20,000,000

Oklahoma State Regents for Higher Education, \$4,000,000

2012: “Oklahoma Supercomputing Symposium 2012”

**PI**; Oklahoma EPSCoR, \$5,000

**GRANTS (continued)**

**Total External Funding to Date (as PI, Co-PI or Senior Personnel): \$154,314,120**

(NOTE: Dollar figures are from totals for each entire grant, not specifically credited to me.)

2011: “Oklahoma Supercomputing Symposium 2011”

**PI**; Oklahoma EPSCoR, \$5,000

2010 - 2013: “MRI: Acquisition of Extensible Petascale Storage for Data Intensive Research”

**PI** with Co-PIs M. Jensen, M. Strauss, X. Xiao, M. Xue, Senior Personnel E. Baron, K. Dresback, R. Kolar, A. McGovern, R. Palmer, D. Papavassiliou, H. Severini, P. Skubic, T. Trafalis, M. Wenger, R. Wheeler (Duquesne U)

National Science Foundation, \$792,925

2010 - 2012 (no cost extension to 2013): “Oklahoma Optical Initiative”

**PI** with Co-PIs D. Brunson (Oklahoma State U), J. Deaton (OneNet), Senior Personnel J. He (Samuel Roberts Noble Foundation), R. T. Baldrige (SRNF, succeeded J. He), D. Schoenefeld (U Tulsa), J. Snow (Langston U), M. Strauss (OU), X. Xiao (OU), M. Xue (OU)

National Science Foundation, \$1,176,470

2010: “Oklahoma Supercomputing Symposium 2010”

**PI**; Oklahoma EPSCoR, \$5,000

2009 - 2013: “Enabling Petascale Ensemble-Based Data Assimilation for the Numerical Analysis and Prediction of High-Impact Weather”

**Co-PI** with PI M. Xue (OU), Co-PIs X. Wang (OU), R. Barnes (OU), X. Li (Oklahoma State U), Senior Personnel S. Sanielevici (Pittsburgh Supercomputing Center)

National Science Foundation, \$1,200,002

2009 - 2012: “A cyberCommons for Ecological Forecasting,

**Senior Personnel** with PI P. Risser, Co-PIs Y. Li, X. Xiang, L. Gruenwald, M. Palmer (Oklahoma State U), Senior Personnel J. Kelly, S. Lakshmivarahan, A. McGovern, C. Weaver

National Science Foundation, \$5,999,999 (\$2,999,999 to Oklahoma)

Oklahoma State Regents for Higher Education, \$100,000

2009 - 2010: “NSF Workshop High Performance Computing Center Sustainability”

**Co-PI** with PI S. Ahalt (Ohio Supercomputer Center), Co-PIs A. Apon (U. Arkansas), D. Lifka (Cornell U)

National Science Foundation, \$49,613

2009: “Oklahoma Supercomputing Symposium 2009”

**PI**; Oklahoma EPSCoR, \$5,000

2008: “Oklahoma Supercomputing Symposium 2008”

**PI**; Oklahoma EPSCoR, \$5,000

2008: “Outer Boundary Forcing for Texas Coastal Models”

**Co-PI** with R. Kolar (PI), K. Dresback (Co-PI)

Texas Water Development Board, \$20,000

2007 - 2012: “Assembling the Eutelost Tree of Life – Addressing the Major Unresolved Problem in Vertebrate Phylogeny”

**Senior Personnel** with R. Broughton (PI); Co-PIs E. Wiley (U Kansas), A. Lopez (U Florida), T. Grande (U Loyola-Chicago), L. Smith (Field Museum), K. Carpenter (Old Dominion U), J. Diamond (U Nebraska-Lincoln); Senior Personnel D. Hough (OU)

National Science Foundation, \$3,000,000 (\$653,801 to OU)

2007 - 2010: “Challenges in Understanding Tornadogenesis and Associated Phenomena”

**Senior Personnel** with J. Straka (PI), K. Kanak (Co-PI), Davies-Jones (Co-PI)

National Science Foundation, \$854,171

2007: “Oklahoma Supercomputing Symposium 2007”

**PI**; Oklahoma EPSCoR, \$5,000

**GRANTS (continued)**

**Total External Funding to Date (as PI, Co-PI or Senior Personnel): \$154,314,120**

(NOTE: Dollar figures are from totals for each entire grant, not specifically credited to me.)

2006 – 2010: “CI-TEAM: Cyberinfrastructure Education for Bioinformatics and Beyond”

**PI** with Co-PIs B. Roe, H. Severini, D. Wu  
National Science Foundation, \$249,974

2006: “Oklahoma Supercomputing Symposium 2006”

**PI**; Oklahoma EPSCoR, \$5,000

2005 - 2007: “SGER: Cyberinfrastructure for Distributed Rapid Response to National Emergencies”

**PI** with Co-PI H. Severini  
National Science Foundation Small Grant for Exploratory Research, \$132,371

2005: “Oklahoma Supercomputing Symposium 2005”

**PI**; Oklahoma EPSCoR, \$5,000 plus \$7,500 OU cost share

2004 - 2005: “Cross-Disciplinary and Statewide Curriculum for Preparatory Medical Physics Education”

**Co-PI** with T. Johnson (PI), D.H. Wu, B.K. Abbott  
OU Faculty Senate Development Award, \$2,500

2004: “Oklahoma Supercomputing Symposium 2004”

**PI**; Oklahoma EPSCoR, \$14,000

2003 - 2006: “MRI: Acquisition of an Itanium Cluster for Grid Computing”

**PI** with K. Droegemeier, K. Mish, D. Papavassiliou, P. Skubic, J. Snow, A. Striz, D. Weber  
National Science Foundation, \$340,000 plus \$164,000 OU cost share

2003: “Oklahoma Supercomputing Symposium 2003”

**PI**; Oklahoma EPSCoR, \$14,000 plus \$2,500 OU cost share

2002 - 2006: “Integration of High Performance Computing in Nanotechnology: A Combined Research in Curricular Development”

**PI** with Co-PIs L. Lee, J. Mullen, G. Newman (originally Co-PI, promoted to PI on Lee’s retirement)  
National Science Foundation, \$399,998

2000 - 2003: “Adaptation of the Advanced Regional Prediction System to the Environmental Hydrology Workbench”

**Co-PI** with PI D. Weber, Co-PIs B. Vieux, K. Droegemeier  
National Center for Supercomputing Applications, \$310,000

2000 - 2003: “Integrated, Scalable MBS [Model-Based Simulation] for Flow Through Porous Media”

**Co-PI** with PI D. Papavassiliou (PI) and Co-PI M. Zaman  
National Science Foundation, \$150,071

2000 - 2001: “Predictions of Atmospheric Dispersion of Chemical and Biological Contaminants in the Urban Canopy”

**Co-PI** with J. Antonio and S. Lakshmiarahan,  
Department of Defense, \$75,000

(Note that this was part of a larger project; PI Prof. Alan Graham, Texas Tech U)

## **PUBLICATIONS**

### **HPC Education, Outreach, Training and Workforce Development**

1. S. P. Calhoun, D. Akin, B. Zimmerman and H. Neeman, 2016: "Large Scale Research Data Archiving: Training for an Inconvenient Technology." *Journal of Computational Science*, to appear. DOI: [10.1016/j.jocs.2016.07.005](https://doi.org/10.1016/j.jocs.2016.07.005).
2. H. Neeman, A. Bergstrom, D. Brunson, C. Ganote, Z. Gray, B. Guilfoos, R. Kalescky, E. Lemley, B. G. Moore, S. K. Ramadugu, A. Romanella, J. Rush, A. H. Sherman, B. Stengel and D. Voss, 2016: "The Advanced Cyberinfrastructure Research and Education Facilitators Virtual Residency: Toward a National Cyberinfrastructure Workforce." *Proc. XSEDE'16*, article 57. DOI: [10.1145/2949550.2949584](https://doi.org/10.1145/2949550.2949584).
3. C. Carley, B. McKinney, L. Sells, C. Zhao and H. Neeman, 2013: "Using a Shared, Remote Cluster for Teaching HPC." *Proc. IEEE CLUSTER 2013*. DOI: [10.1109/CLUSTER.2013.6702630](https://doi.org/10.1109/CLUSTER.2013.6702630).
4. A. Fitz Gibbon, P. Gray, D. A. Joiner, T. Murphy, H. Neeman, R. M. Panoff, C. Peck and S. Thompson, 2010: "Teaching High Performance Computing to Undergraduate Faculty and Undergraduate Students." *Proc. TeraGrid'10*, article 7. DOI: [10.1145/1838574.1838581](https://doi.org/10.1145/1838574.1838581).

### **Best Paper: Education, Outreach & Training Track**

5. H. Neeman, H. Severini, D. Wu and K. Kantardjieff, 2010: "Teaching High Performance Computing via Videoconferencing." *ACM Inroads*, 1(1), 67-71. DOI: [10.1145/1721933.1721954](https://doi.org/10.1145/1721933.1721954).
6. H. Neeman, H. Severini, D. Wu and K. Kantardjieff, 2008: "Teaching Supercomputing via Videoconferencing." *Proc. TeraGrid 2008*. **Best Paper: Education, Outreach & Training Track**. [Abstract](#).
7. H. Neeman, H. Severini and D. Wu, 2008: "Supercomputing in Plain English: Teaching Cyberinfrastructure to Computing Novices." *inroads: SIGCSE Bulletin*, 40 (2), 27-30. DOI: [10.1145/1383602.1383628](https://doi.org/10.1145/1383602.1383628).
8. H. Neeman, L. Lee, J. Mullen and G. Newman, 2006: "Analogies for Teaching Parallel Computing to Inexperienced Programmers." *inroads: SIGCSE Bulletin*, 38 (4), 64-67. DOI: [10.1145/1189136.1189172](https://doi.org/10.1145/1189136.1189172).
9. H. Neeman, J. Mullen, L. Lee and G. Newman, 2002: "Supercomputing in Plain English: Teaching High Performance Computing to Inexperienced Programmers." *Proc. 3rd LCI International Conference on Linux Clusters: The HPC Revolution 2002*. DOI: [10.1.1.329.6450](https://doi.org/10.1.1.329.6450).

### **HPC, Visualization and Other Computing**

1. G. E. Monaco, D. F. McMullen, G. Huntoon, J. Leasure, D. Swanson, H. Neeman, J. Blake and K. Adams, 2016: "The Role of Regional Organizations in Improving Access to the National Computational Infrastructure: A Report to the National Science Foundation: Final Report." DOI: [10.13140/RG.2.1.4023.9603](https://doi.org/10.13140/RG.2.1.4023.9603).
2. D. Brunson, D. Akin, P. Alderman, G. Creager, J. Deaton, G. Dumancas, J. Evert, C. Fennell, F. Fondjo, D. Gentis, J. Hale, P. Hoyt, E. Lemley, E. Linde, G. Louthan, P. Mehta, M. Morris, J. Schafer, H. Severini, J. Snow, N. Xiong, H. Neeman, 2015: "The OneOklahoma Cyberinfrastructure Initiative: A Model for Multi-Institutional Collaboration Conference." National Science Foundation Workshop on The Role of Regional Organizations in Improving Access to National Cyberinfrastructure, white paper.
3. H. Neeman, K. Adams, J. Alexander, D. Brunson, S. P. Calhoun, J. Deaton, F. Fondjo Fotou, K. Frinkle, Z. Gray, E. Lemley, G. Louthan, G. Monaco, M. Morris, J. Snow and B. Zimmerman, 2015: "On Fostering a Culture of Research Cyberinfrastructure Grant Proposals within a Community of Service Providers in an EPSCoR State." *Proc. XSEDE'15*, article 19. DOI: [10.1145/2792745.2792764](https://doi.org/10.1145/2792745.2792764).
4. H. Neeman, D. Akin, J. Alexander, D. Brunson, S. P. Calhoun, J. Deaton, F. Fondjo Fotou, B. George, D. Gentis, Z. Gray, E. Huebsch, G. Louthan, M. Runion, J. Snow and B. Zimmerman, 2014: "The OneOklahoma Friction Free Network: Towards a Multi-Institutional Science DMZ in an EPSCoR State." *Proc. XSEDE'14*, article 49. DOI: [10.1145/2616498.2616542](https://doi.org/10.1145/2616498.2616542).

## **PUBLICATIONS (cont'd)**

### **HPC, Visualization and Other Computing (cont'd)**

5. S. P. Calhoun, D. Akin, J. Alexander, B. Zimmerman, F. Keller, B. George and H. Neeman, 2014: "The Oklahoma PetaStore: A Business Model for Big Data on a Small Budget." *Proc. XSEDE'14*, article 48. DOI: [10.1145/2616498.2616548](https://doi.org/10.1145/2616498.2616548).
6. M. Keesee, Y. Zhang, S. Cox, M. Mouser, C. Chavez, S. Wall, A. Goode, J. Deaton, S. Maheshwari, B. Emery, L. Merrill, S. McVey, V. Mohr, L. Sardi, H. Neeman, J. Alexander, B. George, Z. Gray and D. S. Brunson, 2014: "Digital Oklahoma: Harnessing the Speed of Light." Oklahoma Broadband Initiative technical report. DOI: [10.13140/RG.2.1.2293.4881](https://doi.org/10.13140/RG.2.1.2293.4881).
7. J. B. Bottum, R. Marinshaw, H. Neeman, J. Pepin, J. B. von Oehsen, 2013: "The Condo of Condos." *Proc. XSEDE'13*, article 62 (extended abstract). DOI: [10.1145/2484762.2484775](https://doi.org/10.1145/2484762.2484775).
8. H. Neeman, D. Brunson, J. Deaton, Z. Gray, E. Huebsch, D. Gentis and D. Horton, 2013: "The Oklahoma Cyberinfrastructure Initiative." *Proc. XSEDE'13*, article 70. DOI: [10.1145/2484762.2484793](https://doi.org/10.1145/2484762.2484793).
9. H. Severini, H. Neeman, C. Franklin, J. Alexander, and Sumanth J. V., 2008: "Implementing Linux-Enabled Condor in Windows Computer Labs." *Proc. 2008 Nuclear Science Symposium*, 873-4. DOI: [10.1109/NSSMIC.2008.4774533](https://doi.org/10.1109/NSSMIC.2008.4774533).
10. D. Weber and H. Neeman, 2006: "Experiences in Optimizing a Numerical Weather Prediction Model: An Exercise in Futility?" *Proc. 7th LCI Intl. Conference on Clusters: The HPC Revolution 2006*. <http://www.linuxclustersinstitute.org/Linux-HPC-Revolution/Archive/2006abstracts.html>  
<http://www.linuxclustersinstitute.org/conferences/archive/2006/PDF/lciconf2006-Weber.pdf>
11. Z. Cui, B. E. Vieux, H. Neeman and F. Moreda, 2005: "Parallelization of a Distributed Hydrologic Model." *International Journal of Computer Applications in Technology*, Special Issue on Applications for High-Performance Systems, 22 (1), 42-52. DOI: [10.1504/IJCAT.2005.006802](https://doi.org/10.1504/IJCAT.2005.006802).
12. H. Neeman, 2000: "HAMR: The Hierarchical Adaptive Mesh Refinement System." In *Structured Adaptive Mesh Refinement (SAMR) Grid Methods*, S. B. Baden, N.P. Chrisochoides, D.B. Gannon and M.L. Norman, eds. New York: Springer-Verlag, 19-51. DOI: [10.1007/978-1-4612-1252-2\\_2](https://doi.org/10.1007/978-1-4612-1252-2_2).
13. H. Neeman, 1996: "Autonomous Hierarchical Adaptive Mesh Refinement for Multiscale Simulations." Ph.D. dissertation, University of Illinois at Urbana-Champaign, advisors Michael L. Norman and Michael Heath. [Abstract](#), [PDF](#).
14. H. Neeman, 1990: "Visualization Techniques for Three Dimensional Flow Fields." M.S. thesis, University of Illinois at Urbana-Champaign. Advisors Dennis Gannon and Donald Hearn. [Google](#). [OCLC](#).
15. H. Neeman, 1990: "A Decomposition Algorithm for Visualizing Irregular Grids." *Computer Graphics*, 24:5 (Proc. San Diego Workshop on Volume Visualization), 49-56. DOI: [10.1145/99308.99320](https://doi.org/10.1145/99308.99320).
16. P. Shirley and H. Neeman, 1989: "Volume Visualization at the Center for Supercomputing Research and Development." *Proc. Chapel Hill Workshop on Volume Visualization*, 17-20. DOI: [10.1145/329129.329139](https://doi.org/10.1145/329129.329139).
17. H. Neeman and A. Tuchman, 1989: "Simulation Time Animation System." Center for Supercomputing Research and Development Technical Report 859. [Google](#).

### **Other Engineering**

1. C. C. Kiser, T. A. Handy, E. C. Lemley, D. V. Papavassiliou and H. J. Neeman, 2010: "Reynolds Number Dependence for Laminar Flow Loss Coefficients in Tee and Wye Junctions." *Proc. ASME 2010 3rd Joint US-European Fluids Engineering Summer Meeting and 8th International Conference on Nanochannels, Microchannels, and Minichannels (FEDSM2010-ICNMM2010)*, FEDSM-ICNMM2010-31026. DOI: [10.1115/FEDSM-ICNMM2010-31026](https://doi.org/10.1115/FEDSM-ICNMM2010-31026).
2. T. Handy, E. C. Lemley, D. V. Papavassiliou and H. J. Neeman, 2009: "Loss Coefficients in Microelbows." *Proc. FEDSM2009 ASME Fluids Engineering Division Summer Meeting*, paper FEDSM2009-78517,501-6. DOI: [10.1115/FEDSM2009-78517](https://doi.org/10.1115/FEDSM2009-78517).

## **PUBLICATIONS (cont'd)**

### **Other Engineering (cont'd)**

3. T. Handy, E. C. Lemley, D. V. Papavassiliou and H. J. Neeman, 2009: "Laminar Entrance Length in Microtubes." *Proc. FEDSM2009 ASME Fluids Engineering Division Summer Meeting*, paper FEDSM2009-78532. DOI: [10.1115/FEDSM2009-78532](https://doi.org/10.1115/FEDSM2009-78532).
4. T. A. Handy, E. C. Lemley, D. V. Papavassiliou and H. J. Neeman, 2008: "Simulations to Determine Laminar Loss Coefficients for Flow in Circular Ducts with Arbitrary Planar Bifurcation Geometries." *Proc. FEDSM2008 6th ASME Fluids Engineering Summer Conference*, paper FEDSM2008-55181. DOI: [10.1115/FEDSM2008-55181](https://doi.org/10.1115/FEDSM2008-55181).
5. E. C. Lemley, D. V. Papavassiliou and H. J. Neeman, 2007: "Non-Darcy Flow Pore Network Simulation: Development and Validation of a 3D Model." *Proc. FEDSM2007 5th Joint ASME/JSME Fluids Engineering Conference*, paper FEDSM2007-37278. DOI: [10.1115/FEDSM2007-37278](https://doi.org/10.1115/FEDSM2007-37278).
6. E. C. Lemley, D. V. Papavassiliou and H. J. Neeman, 2007: "Simulations to Determine Laminar Loss Coefficients in Arbitrary Planar Dividing Flow Geometries." *Proc. FEDSM2007 5th Joint ASME/JSME Fluids Engineering Conference*, paper FEDSM2007-37268. DOI: [10.1115/FEDSM2007-37268](https://doi.org/10.1115/FEDSM2007-37268).
7. A. G. Striz, B. Kennedy, Z. Siddique and H. Neeman, 2006: "A Roadmap for Moderate Fidelity Conceptual Design with Multilevel Analysis and MDO." *Proc. 47th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics, and Materials Conference*, 1 - 4 May 2006, Newport RI, AIAA 2006-1619. DOI: [10.2514/6.2006-1619](https://doi.org/10.2514/6.2006-1619).
8. C. Byun, G. P. Guruswamy, A. L. Huizenga, H. J. Neeman, A. G. Striz, 2005: "High Fidelity Dynamic Analysis of Launch Vehicles on Single-Image Supercomputers." *Proc. 46th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics and Materials Conference*. DOI: [10.2514/6.2005-1940](https://doi.org/10.2514/6.2005-1940).
9. H.-W. Lao, H. J. Neeman and D. V. Papavassiliou, 2004: "A Pore Network Model for the Calculation of Non-Darcy Flow Coefficients in Fluid Flow through Porous Media." *Chemical Engineering Communications*, 191 (10), 1285-1322. DOI: [10.1080/00986440490464200](https://doi.org/10.1080/00986440490464200).
10. S. Subramaniam, H. J. Neeman and A. G. Striz, 2004: "Domain Decomposition in Displacement Based Multi-Level Structural Optimization." *Proc. 10th AIAA/ISSMO Multidisciplinary Analysis and Optimization Conference*. DOI: [10.2514/6.2004-4445](https://doi.org/10.2514/6.2004-4445).
11. B. A. Houshmand, H. J. Neeman, and A. G. Striz, 2003: "Displacement Based Multilevel Structural Optimization and High Performance Computing." *Proc. World Congress of Structural and Multidisciplinary Optimization 5*. Proceedings ISBN: [8888412182](https://doi.org/8888412182).  
[https://www.tib.eu/en/search/id/BLCP%3ACN057945290/Displacement-based-multilevel-structural-optimization/?tx\\_tibsearch\\_search%5Bsearchspace%5D=tn](https://www.tib.eu/en/search/id/BLCP%3ACN057945290/Displacement-based-multilevel-structural-optimization/?tx_tibsearch_search%5Bsearchspace%5D=tn)
12. H.-W. Lao, H. Neeman and D. Papavassiliou, 2001: "Stochastic Prediction of Porous Medium Properties." *Computational Technologies for Fluid/Thermal/Chemical Systems with Industrial Applications, The 2001 ASME Pressure Vessels and Piping Conference*, PVP-Vol 424-2, 185-195, Atlanta GA. <http://www.gbv.de/dms/tib-ub-hannover/334010039.pdf>
13. H. Neeman, H.-W. Lao, D. Simpson and D. Papavassiliou, 2001: "Multiscale Characterization of Porous Media Properties for Hydrocarbon Reservoir Simulation." *Proc. SPIE Conference on Commercial Applications for High-Performance Computing*. DOI: [10.1117/12.434861](https://doi.org/10.1117/12.434861).
14. H.-W. Lao, H. Neeman and D. V. Papavassiliou, 2001: "Development of a Random Pore Network Simulation for the Estimation of Reservoir Rock Properties. Part I: The Two-Dimensional Case." *Rock Mechanics Institute Research Memorandum Number IAP/III-01-01*, University of Oklahoma.



## **PUBLICATIONS (cont'd)**

### **Bioscience/Health Science**

1. P. Moisant, H. Neeman and A. Zlotnick, 2010: "Exploring the Paths of (Virus) Assembly." *Biophysical Journal*, 99 (5), 1350-1357. DOI: [10.1016/j.bpj.2010.06.030](https://doi.org/10.1016/j.bpj.2010.06.030).
2. W. McCall, O. Plesh, B. Bishop and H. Neeman, 1990: "Analysis of Jaw Movements and Masticatory Muscle Activity." *Computer Methods and Programs in Biomedicine*, 31, 19-32. PMID: [2311366](https://pubmed.ncbi.nlm.nih.gov/2311366/). DOI: [10.1016/0169-2607\(90\)90028-8](https://doi.org/10.1016/0169-2607(90)90028-8).
3. R. L. Neeman, H. J. Neeman and M. Neeman, 1988: "Application of Orthokinetic Orthoses in Habilitation of a Person with Upper Extremity Incoordination Secondary to Spastic Quadriplegia Due to Cerebral Palsy." *Canadian Journal of Rehabilitation*, 1 (3), 145-154.

### **Other**

1. T. Murphy and H. Neeman, 2003: "1089 and All That: A Journey into Mathematics." *Read This! The MAA Online Book Review*, Mathematical Association of America  
<http://mathdl.maa.org/mathDL/19/?pa=reviews&sa=viewBook&bookId=68076>

## TEACHING EXPERIENCE

- National Computational Science Institute/SC07-SC11 conference Education Program workshops  
Parallel Programming & Cluster Computing workshops (introductory level except as noted)
  - Hosted at OU and co-instructed: 7 weeklong, 6 daylong  
summer 2012; fall 2011 (in conjunction with the Oklahoma Supercomputing Symposium 2011);  
summer 2011 (intermediate level), fall 2010 (in conjunction with the Oklahoma Supercomputing  
Symposium 2010); summer 2010 (intermediate level); fall 2009 (in conjunction with the Oklahoma  
Supercomputing Symposium 2009); summer 2009; fall 2008 (in conjunction with the Oklahoma  
Supercomputing Symposium 2008); summer 2008; fall 2007 (in conjunction with the Oklahoma  
Supercomputing Symposium 2007); summer 2005; summer 2004; fall 2003 (in conjunction with  
the Oklahoma Supercomputing Symposium 2003)
  - Co-instructed but not hosted: summer 2009 at Kean University, at Louisiana State University;  
summer 2006 at Houston Community College
  - Co-instructed since SC07 conference Education/HPC Educators Program
    - SC07, SC08, SC10 (Education Deputy Chair), SC11 (Education Chair), SC12, SC13
- Blue Waters Undergraduate Petascale Institute workshops
  - Co-instructed but not hosted: summer 2011; summer 2010
- Linux Clusters Institute workshops
  - Hosted at OU and co-instructed: May 2015, Feb 2007, June 2005
  - Co-instructed but not hosted: Aug 2014, Feb 2005
- OU CS 1313 Computer Programming for Non-majors: Spring 2000, Fall 2000, Spring 2001, Spring  
2002, Fall 2002, Spring 2003, Fall 2003, Spring 2004, Fall 2004, Fall 2005, Spring 2006, Fall 2006  
Spring 2007, Fall 2007, Spring 2009, Fall 2010, Spring 2013, Fall 2013, Spring 2014, Fall 2014,  
Spring 2015, Fall 2015, Spring 2016, Fall 2016 (pending)
- OU CS 2413 Data Structures: Summer 2000
- OU ChE 5480 (team taught, combination of Nanotechnology and HPC): Fall 2003, Summer 2005
- “Supercomputing in Plain English” workshop series: taught to mixed audience of undergraduate  
students, graduate students, faculty, staff and non-academic professionals: Fall 2001, Fall 2002, Fall  
2004, Fall 2007, Spring 2009, Spring 2011, Spring 2013, Spring 2015
  - Over 2000 participants from 352 institutions and organizations in 47 US states and territories plus  
10 other countries
    - 178 academic institutions in 46 US states and territories plus Argentina, Brazil, China, Mexico,  
Pakistan and Poland, including 15 institutions in OK and 50 institutions in 22 other EPSCoR  
jurisdictions
    - 29 government agencies (US federal and state, foreign) in 14 US states plus India, Italy, Mexico  
and Switzerland
    - 26 commercial firms in 12 US states and territories plus India
    - 15 non-governmental in 8 US states and territories plus Norway
- Introductory Unix Workshops: taught for OU Student Chapter of ACM (fall 1999), for CAPS  
Research Experience for Undergraduates program (summer 1999)

## **GRADUATE SUPERVISION**

1. Aniteja Kota, graduate independent study, Computer Science, Spring 2016
2. Yujia Qin, MS committee, Microbiology & Plant Biology, Fall 2012 - Spring 2014
3. Arne Schwettmann, PhD committee (informal), Physics & Astronomy, Fall 2005 - Spring 2012
4. Roman Voronov, PhD committee, Chemical, Biological & Materials Engineering, Summer 2008 - Spring 2010
5. Samuel Solomon, graduate independent study, Computer Science, Spring - Summer 2005
6. Pankaj Agrawal, graduate independent study, Computer Science, Fall 2003 - Summer 2004
7. Suresh Marru, graduate research assistant and MS committee, Center for Analysis & Prediction of Storms and Electrical & Computer Engineering, 1/2001 - 5/2004
8. R. Jason Lynn, MS committee, Computer Science, 2/2001 - 5/2002

## **UNDERGRADUATE SUPERVISION**

1. Sébastien Bordes, undergraduate intern, University de Limoges, Spring/Summer 2015
2. Gregoire Astruc, undergraduate intern, University de Clermont-Ferrand, Spring/Summer 2008
3. Chris Belgy, undergraduate intern, University de Clermont-Ferrand, Spring/Summer 2008
4. Gregory Mialon, undergraduate intern, University de Clermont-Ferrand, Spring/Summer 2008
5. Guillaume Jeandillou, undergraduate intern, University de Limoges, Spring/Summer 2008
6. Damien Trouillaud, undergraduate intern, University de Limoges, Spring/Summer 2008
7. Vincent Bialoux, undergraduate intern, University de Limoges, Spring/Summer 2007
8. Florent Devillechabrol, undergraduate intern, University de Limoges, Spring/Summer 2007
9. Damien Nestelhut, undergraduate intern, University de Clermont-Ferrand, Spring/Summer 2007
10. Romain Paris, undergraduate intern, University de Clermont-Ferrand, Spring/Summer 2007
11. Jean-Baptiste Perez, undergraduate intern, University de Clermont-Ferrand, Spring/Summer 2007
12. Francois Segaud, undergraduate intern, University de Limoges, Spring/Summer 2007
13. Arnaud Auroux, undergraduate intern, Université de Clermont-Ferrand, Spring/Summer 2006
14. Michael Bessard, undergraduate intern, Université de Clermont-Ferrand, Spring/Summer 2006
15. Thomas Chavanis, undergraduate intern, Université de Clermont-Ferrand, Spring/Summer 2006
16. Anthony Dubey, undergraduate intern, Université de Clermont-Ferrand, Spring/Summer 2006
17. Melanie Garnier, undergraduate intern, Université de Limoges, Spring/Summer 2006
18. Anthony Laroulandie, undergraduate intern, Université de Limoges, Spring/Summer 2006
19. Simon Le Parc, undergraduate intern, Université de Limoges, Spring - Summer 2006
20. Xavier Marguin, undergraduate intern, University de Clermont-Ferrand, Spring/Summer 2006
21. Florian Masson, undergraduate intern, Université de Clermont-Ferrand, Spring/Summer 2006
22. Baptiste Rousset, undergraduate intern, Université de Clermont-Ferrand, Spring/Summer 2006
23. Claire Rouveyrol, undergraduate intern, Université de Clermont-Ferrand, Spring/Summer 2006
24. Virginie Trottet, undergraduate intern, Université de Clermont-Ferrand, Spring/Summer 2006
25. Clement Vayer, undergraduate intern, University de Clermont-Ferrand, Spring/Summer 2006
26. Xing Wang, undergraduate independent study, Computer Science, Summer 2005
27. Jean-Baptiste Diogon, undergraduate intern, Université d'Auvergne, Spring/Summer 2005
28. Thibault Pouget, undergraduate intern, Université de Limoges, Spring/Summer 2005
29. Guilhem Urroz, undergraduate intern, Université de Limoges, Spring/Summer 2005
30. Jason Lacy, undergraduate intern, Library & Information Studies, Spring 2005
31. David LaFleur, undergraduate intern, Library & Information Studies, Spring 2005
32. Clinton Mosley, undergraduate intern, Library & Information Studies, Fall 2004
33. Roy Simon, undergraduate intern, Library & Information Studies, Fall 2003
34. Lyal Grissom, undergraduate employee, OSCER, 9/2001 - 10/2002
35. Dale Simpson, undergraduate employee, Chemical, Biological & Materials Engr, 9/2000 - 5/2002
36. James Clark, undergraduate employee, Computer Science, 6/2001 - 8/2001
37. Joshua Shuller, undergraduate employee, CAPS, 1/2001 - 8/2001
38. Joseph Garfield, undergraduate employee, CAPS, 9/1999 - 1/2001, 6/2001 - 8/2001
39. Kenneth Teague, independent study, CAPS/Computer Science, Spring 1999

## **PROFESSIONAL ACTIVITIES**

### **Conference Activities**

- SC16, 2016, Austin TX
  - Co-organizer, SC16 3rd Workshop on Best Practices for HPC Training, Mon Nov 14
  - Co-organizer, SC16 1st Workshop on HPC Systems Professionals
  - Program Committee, EduHPC-16: SC16 Workshop on Education for High-Performance Computing
  - Co-organizer/moderator, SC16 panel, “HPC Workforce Development: How Do We Find Them, Recruit Them, and Teach Them to Be Today's Practitioners and Tomorrow's Leaders?”  
<http://sc16.supercomputing.org/>
- Conference Chair, Oklahoma Supercomputing Symposium 2016, Norman OK  
<http://symposium2016.oscer.ou.edu/>
- Program Committee, XSEDE 2016, July 17-21 2016  
<http://www.xsede.org/xsede16>
- Program Committee, Sixth NSF/TCPP Workshop on Parallel and Distributed Computing Education (EduPar-16), in conjunction with the 29th IEEE International Parallel & Distributed Processing Symposium, May 25-29 2016, Hyderabad, India
- Program Committee, Workshop on Monitoring and Analysis for High Performance Computing Systems Plus Applications (HPCMASPA 2016), in conjunction with 30th IEEE International Parallel & Distributed Processing Symposium (IPDPS 2016), May 23-27, Chicago IL  
<https://sites.google.com/site/hpcmaspa2016/>
- SC15, 2015, Austin TX
  - Co-organizer, SC15 Second Workshop on Best Practices for HPC Training, Mon Nov 16  
[http://sc15.supercomputing.org/schedule/event\\_detail?evid=wksp133](http://sc15.supercomputing.org/schedule/event_detail?evid=wksp133)
  - Program Committee, SC15 Workshop, EduHPC-15  
<http://cs.gsu.edu/~tcpp/curriculum/?q=edupdhpc>
- Conference Chair, Oklahoma Supercomputing Symposium 2015, Norman OK
- Program Committee, Workshop on Monitoring and Analysis for High Performance Computing Systems Plus Applications (HPCMASPA 2015), in conjunction with IEEE Cluster 2015, Sep 8-11, Chicago IL  
<https://sites.google.com/site/hpcmaspa2015/>
- Program Committee, XSEDE 2015, July 26-30 2015, St. Louis MO  
<http://www.xsede.org/xsede15>
- Program Committee, Fifth NSF/TCPP Workshop on Parallel and Distributed Computing Education (EduPar-15), in conjunction with the 29th IEEE International Parallel & Distributed Processing Symposium, May 25-29 2015, Hyderabad, India  
<http://cs.gsu.edu/~tcpp/curriculum/?q=edupar>
- Workshops at SC14, 2014, New Orleans LA
  - Co-organizer and speaker, SC14 Workshop on Best Practices for HPC Training  
[http://sc14.supercomputing.org/schedule/event\\_detail?evid=wksp143](http://sc14.supercomputing.org/schedule/event_detail?evid=wksp143)
  - Program Committee, SC14 Workshop, EduHPC-14  
[http://cs.gsu.edu/~tcpp/curriculum/?q=EduHPC-14-technical\\_program](http://cs.gsu.edu/~tcpp/curriculum/?q=EduHPC-14-technical_program)
- Conference Chair, Oklahoma Supercomputing Symposium 2014, Norman OK
- Program Committee, Workshop on Monitoring and Analysis for High Performance Computing Systems Plus Applications (HPCMASPA 2014), in conjunction with IEEE Cluster 2014, Madrid Spain  
<https://sites.google.com/site/hpcmaspa2014/>
- Program Committee, XSEDE 2014, Atlanta GA  
<http://www.xsede.org/xsede14/>
- Program Committee, Fourth NSF/TCPP Workshop on Parallel and Distributed Computing Education (EduPar-14), Phoenix AZ  
<http://cs.gsu.edu/~tcpp/curriculum/?q=edupar>

## **PROFESSIONAL ACTIVITIES (continued)**

### **Conference Activities (continued)**

- Program Committee, Society for Information Technology and Teacher Education 24<sup>th</sup> International Conference (SITE2014), Jacksonville FL  
<http://site.ace.org/conf/>
- Conference Chair, Oklahoma Supercomputing Symposium 2013, Norman OK  
<http://symposium2014.oscer.ou.edu/>
- Education, Outreach, and Training (EOT) Papers Chair and Program Committee, IEEE Cluster 2013, Indianapolis IN  
<https://pti.iu.edu/ieecluster-2013/>
- Posters Track Co-Chair and Program Committee, XSEDE 2013, San Diego CA  
<https://www.xsede.org/xsede13>
- Conference Committee, From Computational Biophysics to Systems Biology 2013, Norman OK
- Conference Chair, Oklahoma Supercomputing Symposium 2012, Norman OK  
<http://symposium2012.oscer.ou.edu/>
- Education Chair, The International Conference for High Performance Computing, Networking, Storage, and Analysis (SC11), Seattle WA  
<http://sc11.supercomputing.org/>
- Conference Chair, Oklahoma Supercomputing Symposium 2011, Norman OK  
<http://symposium2011.oscer.ou.edu/>
- Program Committee, XSEDE 2012, Chicago IL  
<https://www.xsede.org/xsede12>
- Program Committee, 9<sup>th</sup> International Conference on Parallel Processing and Applied Mathematics (PPAM11), Workshop on Scalable Computing in Distributed Systems/Workshop on Large Scale Computations on Grids), Torun Poland  
<http://www.ppam.pl/>
- Education Deputy Chair, The International Conference for High Performance Computing, Networking, Storage, and Analysis (SC10), New Orleans LA  
<http://sc10.supercomputing.org/>
- Conference Chair, Oklahoma Supercomputing Symposium 2010, Norman OK  
<http://symposium2010.oscer.ou.edu/>
- Awards Chair, 11th LCI International Conference on High-Performance Clustered Computing, 2010, Pittsburgh PA  
<http://www.linuxclustersinstitute.org/conferences/>
- Education Committee member, workshops co-chair, SC09 Education Program, Portland OR  
<http://sc09.supercomputing.org/>
- Conference Chair, Oklahoma Supercomputing Symposium 2009, Norman OK  
<http://symposium2009.oscer.ou.edu/>
- Technical Presentations and Technical Briefs Chair, 10th LCI International Conference on High-Performance Clustered Computing, 2009, Boulder CO  
<http://www.linuxclustersinstitute.org/conferences/>
- Education Committee member, SC08 Education Program, Austin TX  
<http://sc08.supercomputing.org/>
- Conference Chair, Oklahoma Supercomputing Symposium 2008, Norman OK  
<http://symposium2008.oscer.ou.edu/>
- Conference Committee member, 9th LCI International Conference on High-Performance Clustered Computing, 2008, Urbana IL  
<http://www.linuxclustersinstitute.org/conferences/>

## **PROFESSIONAL ACTIVITIES (continued)**

### **Conference Activities (continued)**

- Planning Committee member, Great Plains Network Annual Meeting 2008  
[http://collaboration.greatplains.net/wiki/index.php/Annual Meeting:2008](http://collaboration.greatplains.net/wiki/index.php/Annual_Meeting:2008)
- Education Committee member, SC07 Education Program, Reno NV  
<http://sc07.supercomputing.org/>
- Conference Chair, Oklahoma Supercomputing Symposium 2007, Norman OK  
<http://symposium2007.oscer.ou.edu/>
- Technical Presentations Chair, 8th LCI International Conference on High-Performance Clustered Computing, 2007, South Lake Tahoe CA  
<http://www.linuxclustersinstitute.org/conferences/>
- Conference Chair, Oklahoma Supercomputing Symposium 2006, Norman OK  
<http://symposium2006.oscer.ou.edu/>
- Conference Chair, 7th LCI International Conference on Linux Clusters: The HPC Revolution 2006, Norman OK  
<http://www.linuxclustersinstitute.org/conferences/>
- Mini-Symposium Organizer, SIAM Conference on Parallel Processing for Scientific Computing 2006, MS-55 “High Performance Parallel and Cluster Computing Education,” San Francisco  
<http://www.siam.org/meetings/pp06/>
- Conference Chair, Oklahoma Supercomputing Symposium 2005, Norman OK  
<http://symposium2005.oscer.ou.edu/>
- Program Committee & Steering Committee, 6th LCI International Conference on Linux Clusters: The HPC Revolution 2005, Chapel Hill NC  
<http://www.linuxclustersinstitute.org/conferences/>
- Program Committee, Collaborative and Learning Applications of Grid Technology and Grid Education (CLAG + Grid.edu) 2005 (part of CCGrid2005), Cardiff UK  
<http://research.ac.upc.es/clag/clag2005.htm>
- Mini-Symposium Co-organizer with J. Mullen, SIAM Conference on Computational Science & Engineering 2005, MS-30 “High End Computational Science Education,” Orlando FL  
<http://www.siam.org/meetings/cse05/>
- Conference Chair, Oklahoma Supercomputing Symposium 2004, Norman OK  
<http://symposium2004.oscer.ou.edu/>
- Program Committee, 6th LCI International Conference on Linux Clusters: The HPC Revolution 2004, Austin TX  
<http://www.linuxclustersinstitute.org/Linux-HPC-Revolution/>
- Program Committee, Grid.Edu 2004 (part of CCGrid2004), Chicago IL  
<http://csce.uark.edu/~aapon/grid.edu2004/>
- Conference Chair, Oklahoma Supercomputing Symposium 2003, Norman OK  
<http://www.oscer.ou.edu/Symposium2003/>
- Program Committee, ClusterWorld Conference & Expo 2003, San Jose CA  
<http://www.clusterworld.com/>
- Conference Chair, OU Supercomputing Symposium 2002, Norman OK  
[http://www.oscer.ou.edu/symposium2002\\_schedule.html](http://www.oscer.ou.edu/symposium2002_schedule.html)

## **PROFESSIONAL ACTIVITIES (continued)**

### **Advisory Committees**

- 2014-present: Internet2 High Performance and Research Computing Program Advisory Group  
<http://www.internet2.edu/news/detail/6039/>
- 2013-present: National Science Foundation Advisory Committee for Cyberinfrastructure (original term 2013-2015, extended through 2016)  
<https://www.nsf.gov/cise/aci/advisory.jsp>
- 2013-present: University of Central Oklahoma Center for Research and Education in Interdisciplinary Computation (CREIC)
- 2013-present: Samuel Roberts Noble Foundation Non-Resident Fellow
- 2012-present: University of Central Oklahoma Computer Science Advisory Board
- 2012-13: Pawnee Nation College, Technical Advisory Council
- 2010-12: ID/NM/NV NSF EPSCoR RII Track-2 External Advisory Committee
- 2009-11: National Science Foundation Advisory Committee for Cyberinfrastructure, Task Force on Cyberlearning and Workforce Development  
[http://www.nsf.gov/od/oci/taskforces/TaskForceReport\\_Learning.pdf](http://www.nsf.gov/od/oci/taskforces/TaskForceReport_Learning.pdf)
- 2008: Samuel Roberts Noble Foundation External Advisory Committee (chair)
- 2007: Arkansas Cyberinfrastructure External Advisory Committee

### **Professional Organization Memberships**

- Association for Computing Machinery (includes SIGHPC)
- IEEE Computer Society
- Society for Industrial & Applied Mathematics

### **Proposal Reviewing**

- National Science Foundation Review Panels: spring 2004, spring 2005, spring 2005 (electronic), fall 2005, spring 2007, fall 2007, spring 2008, spring 2009, spring 2011, spring 2012, summer 2012, fall 2012, summer 2013, summer 2014, fall 2014, spring 2015, spring 2016
- AAAS Michigan Review Panel, spring 2006
- Various other review panels

## **HONORS & AWARDS**

- IEEE Cluster 2013 Best Technical Poster: P. Calhoun, D. Akin, J. Alexander, B. Zimmerman, B. George and H. Neeman, "The Oklahoma PetaStore: Big Data on a Small Budget."
- TeraGrid 2010 Best Paper: Education, Outreach, Training: A. Fitz Gibbon, P. Gray, D. A. Joiner, T. Murphy, H. Neeman, R. M. Panoff, C. Peck and S. Thompson, 2010: "Teaching High Performance Computing to Undergraduate Faculty and Undergraduate Students." *Proc. TeraGrid 2010*.
- TeraGrid 2008 Best Paper: Education, Outreach, Training: H. Neeman, H. Severini, D. Wu and K. Kantardjiev, 2008: "Teaching Supercomputing via Videoconferencing." *Proc. TeraGrid 2008*.
- HPCwire.com "People to Watch 2006"  
<http://www.taborcommunications.com/hpcwire/features/people06/>