

# CURRICULUM VITA

## Henry J. Neeman

Director, OU Supercomputing Center for Education & Research  
(A Division of OU Information Technology)

Adjunct Assistant Professor, School of Computer Science  
University of Oklahoma

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### EDUCATION

Ph.D., Computer Science, University of Illinois at Urbana-Champaign, October 1996

Dissertation advisors: Michael L. Norman, Michael Heath, Dennis Gannon

Dissertation committee members: Donald Hearn, Faisal Saeed, Paul Saylor

M.S., Computer Science, University of Illinois at Urbana-Champaign, January 1990

Thesis advisors: Dennis Gannon, Donald Hearn

B.S., Computer Science (magna cum laude), State University of New York at Buffalo, May 1987

B.A., Statistics (magna cum laude; departmental honors), State University of New York at Buffalo,  
May 1987

Minor, Mathematics, State University of New York at Buffalo, May 1987

### PROFESSIONAL EXPERIENCE

8/2001 - present	Director OU Supercomputing Center for Education & Research University of Oklahoma, Norman, OK
1/2000 - present	Adjunct Assistant Professor School of Computer Science, University of Oklahoma
8/1998 - 6/2007	Research Scientist Center for Analysis & Prediction of Storms, University of Oklahoma
5/1996 - 8/1998	Postdoctoral Research Associate National Center for Supercomputing Applications, University of Illinois at Urbana-Champaign
5/1993 - 5/1996	Graduate Research Assistant National Center for Supercomputing Applications, University of Illinois at Urbana-Champaign
8/1987 - 5/1993	Graduate Research Assistant Center for Supercomputing Research & Development, University of Illinois at Urbana-Champaign
1/1985 - 8/1987	Undergraduate Researcher/Teaching Assistant Department of Physiology, State University of New York at Buffalo

## GRANTS

### Total External Funding to Date (as PI, Co-PI or Senior Personnel): \$12,836,699

2009 - 2013	<i>Enabling Petascale Ensemble-Based Data Assimilation for the Numerical Analysis and Prediction of High-Impact Weather</i> , 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	<i>A cyberCommons for Ecological Forecasting</i> ; Senior Personnel with PI P. Risser, Co-PIs Y. Li, X. Xiang, L. Gruenwald, M. Palmer (Oklahoma State U), Senior Personnel J. Kelly, S. Lakshmivaran, A. McGovern, C. Weaver National Science Foundation, \$5,999,999
2009 - 2010	<i>NSF Workshop High Performance Computing Center Sustainability</i> 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	<i>Oklahoma Supercomputing Symposium 2009</i> , PI; Oklahoma EPSCoR, \$5,000
2008	<i>Oklahoma Supercomputing Symposium 2008</i> , PI; Oklahoma EPSCoR, \$5,000
2008	<i>Outer Boundary Forcing for Texas Coastal Models</i> , Co-PI with R. Kolar (PI), K. Dresback (Co-PI) Texas Water Development Board, \$20,000
2007 - 2012	<i>Assembling the Eutelost Tree of Life – Addressing the Major Unresolved Problem in Vertebrate Phylogeny</i> , 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	<i>Challenges in Understanding Tornadogenesis and Associated Phenomena</i> , Senior Personnel with J. Straka (PI), K. Kanak (Co-PI), Davies-Jones (Co-PI) National Science Foundation, \$854,171
2007	<i>Oklahoma Supercomputing Symposium 2007</i> , PI; Oklahoma EPSCoR, \$5,000
2006 – 2009	<i>CI-TEAM: Cyberinfrastructure Education for Bioinformatics and Beyond</i> , PI with B. Roe (Co-PI), H. Severini (Co-PI), D. Wu (Co-PI) National Science Foundation, \$249,974
2006	<i>Oklahoma Supercomputing Symposium 2006</i> , PI; Oklahoma EPSCoR, \$5,000
2005 – 2007	<i>SGER: Cyberinfrastructure for Distributed Rapid Response to National Emergencies</i> , PI with H. Severini (Co-PI), National Science Foundation Small Grant for Exploratory Research, \$132,371
2006	<i>Oklahoma Supercomputing Symposium 2005</i> , PI Oklahoma EPSCoR, \$5,000 plus \$7,500 OU cost share
2004 – 2005	<i>Cross-Disciplinary and Statewide Curriculum for Preparatory Medical Physics Education</i> , Co-PI with T. Johnson (PI), D.H. Wu, B.K. Abbott, OU Faculty Senate Development Award, \$2,500

## GRANTS

**Total External Funding to Date (as PI, Co-PI or Senior Personnel): \$12,836,699** (continued)

2004	<i>Oklahoma Supercomputing Symposium 2004</i> , PI; Oklahoma EPSCoR, \$14,000
2003 – 2006	<i>MRI: Acquisition of an Itanium Cluster for Grid Computing</i> , 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	<i>Oklahoma Supercomputing Symposium 2003</i> , PI Oklahoma EPSCoR, \$14,000 plus \$2,500 OU cost share
2002 – 2006	<i>Integration of High Performance Computing in Nanotechnology: A Combined Research in Curricular Development</i> , PI with Lloyd Lee, Julia S. Mullen, Gerard K. Newman, National Science Foundation, \$399,998
2000 – 2003	<i>Adaptation of the Advanced Regional Prediction System to the Environmental Hydrology Workbench</i> , co-PI with Daniel Weber (PI), Baxter Vieux, Kelvin Droegemeier, National Center for Supercomputing Applications, \$310,000
2000 – 2003	<i>Integrated, Scalable MBS [Model-Based Simulation] for Flow Through Porous Media</i> , co-PI with Profs. Dimitrios Papavassiliou (PI) and Musharraf Zaman, National Science Foundation, \$150,071
2000 – 2001	<i>Predictions of Atmospheric Dispersion of Chemical and Biological Contaminants in the Urban Canopy</i> , co-PI with Profs. John Antonio and S. Lakshmivarahan, Department of Defense, \$75,000 (note that this was part of a larger project; PI Prof. Alan Graham, Texas Tech U)

## TEACHING EXPERIENCE

- SC07 conference Education Program Parallel & Cluster Computing workshop
  - Fall 2008: hosted at OU and co-instructed (in conjunction with the Oklahoma Supercomputing Symposium 2007)
  - Summer 2008: hosted at OU and co-instructed
  - Fall 2007: hosted at OU and co-instructed (in conjunction with the Oklahoma Supercomputing Symposium 2007)
- National Computational Science Institute Parallel & Cluster Computing workshops
  - Summer 2006: co-instructed (not hosted at OU)
  - Summer 2005: hosted at OU and co-instructed
  - Summer 2004: hosted at OU and co-instructed
  - Fall 2003: hosted at OU and co-instructed (in conjunction with the Oklahoma Supercomputing Symposium 2003)
- Linux Clusters Institute workshops
  - Feb 2007: hosted at OU and co-instructed
  - June 2005: hosted at OU and co-instructed
  - Feb 2005: co-instructed (not hosted at OU)
- Computer Programming for Non-majors (OU CS 1313) — 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
- Data Structures (OU CS 2413) — Summer 2000
- “Supercomputing in Plain English” Workshop Series: taught to mixed audience of undergraduate students, graduate students, faculty and staff from 18 departments in 5 colleges — Fall 2001, Fall 2002, Fall 2004, Fall 2007
- Introductory Unix Workshops: taught for OU Student Chapter of ACM (Fall 1999), for CAPS Research Experience for Undergraduates program (Summer 1999)

## GRADUATE SUPERVISION

- Roman Voronov, PhD committee, Chemical, Biological & Materials Engineering, Summer 2008 - present
- Brian Kennedy, PhD committee, Aerospace & Mechanical Engineering, Fall 2005 - present
- Arne Schwettmann, PhD committee (informal), Physics & Astronomy, Fall 2005 - present
- Samuel Solomon, graduate independent study, Computer Science, Spring - Summer 2005
- Pankaj Agrawal, graduate independent study, Computer Science, Fall 2003 - Summer 2004
- Suresh Marru, graduate research assistant and MS committee, Center for Analysis & Prediction of Storms and Electrical & Computer Engineering, Jan 2001 - May 2004
- R. Jason Lynn, MS committee, Computer Science, Feb 2001 - May 2002

## UNDERGRADUATE SUPERVISION

- Gregoire Astruc, undergraduate intern, OSCER/University de Clermont-Ferrand, Spring - Summer 2008
- Chris Belgy, undergraduate intern, OSCER/University de Clermont-Ferrand, Spring - Summer 2008
- Gregory Mialon, undergraduate intern, OSCER/University de Clermont-Ferrand, Spring - Summer 2008
- Guillaume Jeandillou, undergraduate intern, OSCER/University de Limoges, Spring - Summer 2008
- Damien Trouillaud, undergraduate intern, OSCER/University de Limoges, Spring - Summer 2008
- Vincent Bialoux, undergraduate intern, OSCER/University de Limoges, Spring - Summer 2007
- Florent Devillechabrol, undergraduate intern, OSCER/University de Limoges, Spring - Summer 2007
- Damien Nestelhut, undergraduate intern, OSCER/University de Clermont-Ferrand, Spring - Summer 2007
- Romain Paris, undergraduate intern, OSCER/University de Clermont-Ferrand, Spring - Summer 2007
- Jean-Baptiste Perez, undergraduate intern, OSCER/University de Clermont-Ferrand, Spring - Summer 2007
- Francois Segaud, undergraduate intern, OSCER/University de Limoges, Spring - Summer 2007
- Arnaud Auroux, undergraduate intern, OSCER/Universite de Clermont-Ferrand, Spring - Summer 2006
- Michael Bessard, undergraduate intern, OSCER/Universite de Clermont-Ferrand, Spring - Summer 2006
- Thomas Chavanis, undergraduate intern, OSCER/Universite de Clermont-Ferrand, Spring - Summer 2006
- Anthony Dubey, undergraduate intern, OSCER/Universite de Clermont-Ferrand, Spring - Summer 2006
- Melanie Garnier, undergraduate intern, OSCER/Universite de Limoges, Spring - Summer 2006
- Anthony Laroulandie, undergraduate intern, OSCER/Universite de Limoges, Spring - Summer 2006
- Simon Le Parc, undergraduate intern, OSCER/Universite de Limoges, Spring - Summer 2006
- Xavier Marguin, undergraduate intern, OSCER/University de Clermont-Ferrand, Spring - Summer 2006
- Florian Masson, undergraduate intern, OSCER/Universite de Clermont-Ferrand, Spring - Summer 2006
- Baptiste Rousset, undergraduate intern, OSCER/Universite de Clermont-Ferrand, Spring - Summer 2006

- Claire Rouveyrol, undergraduate intern, OSCER/Universite de Clermont-Ferrand, Spring - Summer 2006
- Virginie Trottet, undergraduate intern, OSCER/Universite de Clermont-Ferrand, Spring - Summer 2006
- Clement Vayer, undergraduate intern, OSCER/University de Clermont-Ferrand, Spring - Summer 2006
- Xing Wang, undergraduate independent study, Computer Science, Summer 2005
- Jean-Baptiste Diogon, undergraduate intern, OSCER/Universite d'Auvergne, Spring - Summer 2005
- Thibault Pouget, undergraduate intern, OSCER/Universite de Limoges, Spring - Summer 2005
- Guilhem Urroz, undergraduate intern, OSCER/Universite de Limoges, Spring - Summer 2005
- Jason Lacy, undergraduate intern, Library & Information Studies, Spring 2005
- David LaFleur, undergraduate intern, Library & Information Studies, Spring 2005
- Clinton Mosley, undergraduate intern, Library & Information Studies, Fall 2004
- Roy Simon, undergraduate intern, Library & Information Studies, Fall 2003
- Lyal Grissom, undergraduate employee, OSCER, Sep 2001 - Oct 2002
- Dale Simpson, undergraduate employee, Chemical Engineering & Materials Science, Sep 2000 - May 2002
- James Clark, undergraduate employee, Computer Science, June 2001 - Aug 2001
- Joshua Shuller, undergraduate employee, CAPS, Jan 2001 - Aug 2001
- Joseph Garfield, undergraduate employee, CAPS, Sep 1999 - Jan 2001, Jun - Aug 2001
- Kenneth Teague, independent study, CAPS/Computer Science, Spring 1999

## **PUBLICATIONS**

### **Journal Articles**

- H. Neeman, H. Severini, D. Wu, K. Kantardjieff, 2009: "Teaching High Performance Computing via Videoconferencing." *inroads: SIGCSE Bulletin*, to appear.
- H. Neeman, H. Severini, D. Wu, 2008: "Supercomputing in Plain English: Teaching Cyberinfrastructure to Computing Novices." *inroads: SIGCSE Bulletin*, 40 (2), 27-30.
- H. Neeman, L. Lee, J. Mullen, G. Newman, 2006: "Analogies for Teaching Parallel Computing to Inexperienced Programmers." *inroads: SIGCSE Bulletin*, 38 (4), 64-67.
- 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.
- 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.
- 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.
- 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.

### **Conference Proceedings**

- T. Handy, E.C. Lemley, D.V. Papavassiliou and H.J. Neeman, 2009, "Loss Coefficients in Microelbows." *Proceedings of FEDSM2009, ASME Fluids Engineering Division Summer Meeting*, paper FEDSM2009-78517.
- T. Handy, E.C. Lemley, D.V. Papavassiliou and H.J. Neeman, 2009, "Laminar Entrance Length in Microtubes." *Proceedings of FEDSM2009, ASME Fluids Engineering Division Summer Meeting*, paper FEDSM2009-78532.
- H. Severini, H. Neeman, C. Franklin, J. Alexander, and Sumanth J.V., 2008: "Implementing Linux-Enabled Condor in Windows Computer Labs." *Proceedings of the 2008 Nuclear Science Symposium*.
- H. Neeman, H. Severini, D. Wu and K. Kantardjieff, 2008: "Teaching Supercomputing via Videoconferencing." *Proceedings of TeraGrid 2008*. Best Education Paper Award.
- 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." *Proceedings of FEDSM2008, 6th ASME Fluids Engineering Summer Conference*, paper FEDSM2008-55181, to appear.
- E.C. Lemley, D.V. Papavassiliou and H.J. Neeman, 2007: "Non-Darcy Flow Pore Network Simulation: Development and Validation of a 3D Model." *Proceedings of FEDSM2007, 5th Joint ASME/JSME Fluids Engineering Conference*, paper FEDSM2007-37278.
- E.C. Lemley, D.V. Papavassiliou and H.J. Neeman, 2007: "Simulations to Determine Laminar Loss Coefficients in Arbitrary Planar Dividing Flow Geometries." *Proceedings of FEDSM2007, 5th Joint ASME/JSME Fluids Engineering Conference*, paper FEDSM2007-37268.
- A.G. Striz, B. Kennedy, Z. Siddique and H. Neeman, 2006: "A Roadmap for Moderate Fidelity Conceptual Design with Multilevel Analysis and MDO." To appear.

## **PUBLICATIONS (continued)**

### **Conference Proceedings (continued)**

- D. Weber and H. Neeman, 2006: "Experiences in Optimizing a Numerical Weather Prediction Model: An Exercise in Futility?" *Proc. of the 7th LCI International Conference on Clusters: The HPC Revolution 2006*.
- 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. of the 46th AIAA/ASME/ASCE/AHS/ASC Structures, Structural Dynamics and Materials Conference*.
- S. Subramaniam, H.J. Neeman and A.G. Striz, 2004: "Domain Decomposition in Displacement Based Multi-Level Structural Optimization." *Proc. of the 10th AIAA/ISSMO Multidisciplinary Analysis and Optimization Conference*.  
<http://portal.acm.org/citation.cfm?id=99307.99320&coll=GUIDE&dl=GUIDE&type=series&idx=SERIES216&part=series&WantType=Proceedings&title=VolVis&CFID=69074154&CFTOKEN=23479506>
- B.A. Houshmand, H.J. Neeman, and A.G. Striz, 2003: "Displacement Based Multilevel Structural Optimization and High Performance Computing." *Proc. of the World Congress of Structural and Multidisciplinary Optimization 5*.
- H. Neeman, J. Mullen, L. Lee and G. Newman, 2002: "Supercomputing in Plain English: Teaching High Performance Computing to Inexperienced Programmers." In *Proc. of the 3<sup>rd</sup> LCI International Conference on Linux Clusters: The HPC Revolution 2002*.
- H.-W. Lao, H. Neeman and D. Papavassiliou, 2001: "Stochastic Estimation of Porous Medium Properties." *Proc. of the 3rd International Conference on Computational Technologies for Fluid/Thermal/Chemical Systems with Industrial Applications*.
- H. Neeman, H.-W. Lao, D. Simpson and D. Papavassiliou, 2001: "Multiscale Characterization of Porous Media Properties for Hydrocarbon Reservoir Simulation." *Proc. of the SPIE Conference on Commercial Applications for High-Performance Computing*.
- H. Neeman, 2000: "HAMR: The Hierarchical Adaptive Mesh Refinement System." In *Structured Adaptive Mesh Refinement (SAMR) Grid Methods*, Baden, S.B., N.P. Chrisochoides, D.B. Gannon and M.L. Norman, eds. New York: Springer-Verlag, 19-51.
- H. Neeman, 1990: "A Decomposition Algorithm for Visualizing Irregular Grids." *Computer Graphics*, 24:5 (*Proc. of the San Diego Workshop on Volume Visualization*), 49-56.
- P. Shirley and H. Neeman, 1989: "Volume Visualization at the Center for Supercomputing Research and Development." *Proc. of the Chapel Hill Workshop on Volume Visualization*, 17-20.

### **Conference Proceeding Abstracts**

- D.V. Papavassiliou, and H. Neeman, 2003: "Prediction of Formation Properties and Uncertainty with Pore Network Modeling." *7th US National Congress on Computational Mechanics*.
- V. Ramasubramanian, H.-W. Lao, D. Simpson, H. Neeman, M. Zaman and D.V. Papavassiliou, 2001: "Multiscale Simulation of Flow Through Porous Media with High Performance Computing." *American Institute of Chemical Engineers Annual Conference*, paper 288d.
- H.-W. Lao, H.J. Neeman and D.V. Papavassiliou, 2002: "Stochastic Prediction of the Permeability Versus Non-Darcy Coefficient Correlation in a Porous Material." *American Institute of Chemical Engineers Annual Conference*, paper 69g.

## **PUBLICATIONS (continued)**

### **Conference Proceeding Abstracts (continued)**

- H.-W. Lao, H.J. Neeman and D.V. Papavassiliou, 2002: "Prediction of Non-Darcy Flow Coefficients Using Pore Network Modeling." *14th U.S. National Congress on Theoretical and Applied Mechanics (14th USNCTAM)*.
- H.-W. Lao, H.J. Neeman and D.V. Papavassiliou, 2001: "Prediction of Porous Media Properties with a Random Pipe Network." *American Institute of Chemical Engineers Annual Conference*, Reno, November. paper 183b.
- V. Ramasubramanian, H.-W. Lao, D. Simpson, H. Neeman and D. Papavassiliou, 2001: "Development of a Multiscale Simulator for Flow Through Porous Formations." *Proceedings of the 6th United States Congress on Computational Geomechanics, Symposium on Geotechnical Applications*.

### **Dissertation & Thesis**

- H. Neeman, 1996: *Autonomous Hierarchical Adaptive Mesh Refinement for Multiscale Simulations*. Ph.D. dissertation, University of Illinois at Urbana-Champaign. Michael L. Norman and Michael Heath, advisors.
- H. Neeman, 1990: *Visualization Techniques for Three Dimensional Flow Fields*. M.S. thesis, University of Illinois at Urbana-Champaign. Dennis Gannon and Donald Hearn, advisors.

### **Technical Reports**

- H.-W. Lao, H. Neeman and D. V. Papavassiliou, 2001: "Development of a Random Pore Network Simulaton 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.
- H. Neeman and A. Tuchman, 1989: "Simulation Time Animation System." *Center for Supercomputing Research and Development Technical Report 859*.

### **Book Review**

- 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://www.maa.org/reviews/1089.html>

## **PROFESSIONAL ACTIVITIES**

### **Conference Activities**

Education Chair, The International Conference for High Performance Computing, Networking, Storage, and Analysis (SC11), Seattle WA

Awards Chair, 11<sup>th</sup> 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.sc-education.org/>

Program Chair, Oklahoma Supercomputing Symposium 2009, Norman OK

<http://symposium2009.oscer.ou.edu/>

Technical Presentations and Technical Briefs Chair, 10<sup>th</sup> 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/?pg=education.html>

Program Chair, Oklahoma Supercomputing Symposium 2008, Norman OK

<http://symposium2008.oscer.ou.edu/>

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)

Program Committee member, 9<sup>th</sup> LCI International Conference on High-Performance Clustered Computing, 2008, Urbana IL

<http://www.linuxclustersinstitute.org/conferences/>

Education Committee member, SC07 Education Program, Reno NV

<http://sc07.supercomputing.org/?pg=education.html>

Program Chair, Oklahoma Supercomputing Symposium 2007, Norman OK

<http://symposium2007.oscer.ou.edu/>

Technical Presentations Chair, 8<sup>th</sup> LCI International Conference on High-Performance Clustered Computing, 2007, South Lake Tahoe CA

Program Chair, Oklahoma Supercomputing Symposium 2006, Norman OK

<http://symposium2006.oscer.ou.edu/>

Conference Chair, 7<sup>th</sup> LCI International Conference on Linux Clusters: The HPC Revolution 2006, Norman OK

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/>

Program Chair, Oklahoma Supercomputing Symposium 2005, Norman OK

<http://symposium2005.oscer.ou.edu/>

Program Committee & Steering Committee, 6<sup>th</sup> LCI International Conference on Linux Clusters: The HPC Revolution 2005, Chapel Hill NC

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>

## **PROFESSIONAL ACTIVITIES (continued)**

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

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/>

Program Chair, Oklahoma Supercomputing Symposium 2004, Norman OK

<http://symposium2004.oscer.ou.edu/>

Program Committee, 6<sup>th</sup> 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/>

Program 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/>

Program Chair, OU Supercomputing Symposium 2002, Norman OK

[http://www.oscer.ou.edu/symposium2002\\_schedule.html](http://www.oscer.ou.edu/symposium2002_schedule.html)

### **Professional Organization Memberships**

Association for Computing Machinery

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

AAAS Michigan Review Panel, spring 2006

### **HONORS & AWARDS**

HPCwire.com “People to Watch 2006”