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San Diego Supercomputer Center
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The Humanistic Algorithms: Semantic Networks in Multimedia Scholarship Group
The HistorySpace Project: Information Rich Virtual Environments for Historical Scholarship Group

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Humanities High Performance Computing Collaboratory (H^PC): “Coordinating High Performance Computing Institutes and the Digital Humanities”

Description of Project and Its Significance

The Institute for Computing in Humanities, Arts, and Social Science (I-CHASS) at the University of Illinois at Urbana-Champaign will lead a collaboration partnering the National Center for Supercomputing Applications (NCSA), the Pittsburgh Supercomputer Center (PSC), and the San Diego Supercomputer Center (SDSC) that will foster innovation in the research and development of computational resources for humanities research groups. ***Humanities High Performance Computing Collaboratory (H^PC): Coordinating High Performance Computing Institutes and the Digital Humanities*** will engage scholars in sustained collaboration with high performance computing specialists in order to identify, create, and adapt computational tools and methods. “Humanities High Performance Computing” signals an investment (structural, computational, and resource-based) in the extension of H^PC to serve as a portal for humanities scholars with all levels of expertise—from beginner to the most advanced—to receive technical support, access to high performance computing, and products and services associated with the digital technologies. Participants will consult with each computing staff about digital technology—Simulation and Modeling, Social Networking, Grid and Distributed Computing, Data Analytics, or Visualization technologies, discuss these technologies via a virtual community, and develop long-term technological goals for their projects (Appendix II: Collaboration Diagram). H^PC will facilitate nine mini-residencies (three per center) as well as a two-day conference for forty-five humanities scholars and fifteen high performance computing specialists. In addition, the grant will support the construction and maintenance of a virtual community for participants and the larger public which will function as an online collaboratory space.

Table of Contents

Description of Project and Its Significance.....	1
Table of Contents.....	2
Significance.....	3
Institutional Profile.....	4
Curriculum and Work Plan.....	5
Participants.....	6
Impact and Evaluation.....	8
Staff, Faculty, and Consultants.....	9
Budget Justification and Budget.....	11
Appendix I: References.....	18
Appendix II: Collaboration Flowchart.....	20
Appendix III: List of Participants By Group.....	21
Appendix IV: Curriculum Workplan Itinerary.....	24
Appendix V: Curriculum Vitae- I-CHASS Faculty, Staff, and Consultants.....	26
Appendix VI: Curriculum Vitae- Humanities Group Leaders.....	38
Appendix VII: Curriculum Vitae- High Performance Computing Center Staffs.....	60
Appendix VIII: Previous Workshop Experiences.....	67
Appendix IX: Computational and Logistical Resources.....	68
Appendix X: Letters of Commitment and Support.....	71

Significance:

Over the past twenty years, the interdisciplinary field of humanities computing has created a riot of research information and tools, developed by many institutions across a variety of technical formats and platforms that are often unfamiliar to humanities scholars who rely on personal computing and not high performance computing.¹ The proposed *Humanities High Performance Computing² Collaboratory (H^PC): Coordinating High Performance Computing Institutes and the Digital Humanities* project will address this gap between software, computing hardware, and humanities research by creating a collaborative structure that will serve as a consulting and development resource for advanced humanities scholars. Bridging the divide between existing technologies, supercomputing centers, and the innovative work of humanities scholars, the Institute for Computing in Humanities, Arts, and Social Science (I-CHASS) at the University of Illinois at Urbana-Champaign will lead a collaboration³ partnering the National Center for Supercomputing Applications (NCSA), the Pittsburgh Supercomputer Center (PSC), and the San Diego Supercomputer Center (SDSC) that will foster innovation in the research and development of the comprehensive information technology infrastructure, termed “cyberinfrastructure,” for selected humanities research groups. H^PC will engage humanists in sustained dialogue with colleagues at NCSA, PSC, and SDSC, in order to identify, create, and adapt computational tools and methods that will enhance and accelerate humanities research and education. Humanities scholars will consult with three separate high performance computing staffs about different technologies, facilitate discussion about these technologies among humanities research groups via a virtual community, and develop long-term technological goals for each project and the digital humanities more generally. I-CHASS will serve as the coordination point for all H^PC participants. This grant will facilitate nine mini-residencies (three per center) and a two-day conference for forty-five humanities participants from outside of each center’s region, as well as fifteen high performance computing specialists at. In addition, the grant will support the construction and maintenance of a virtual community for participants and the larger public which will function as an online collaboratory space.

This high performance computing-humanities partnership will integrate hardware for computing, data and networks, digitally-enabled sensors, observatories and experimental facilities, and an interoperable suite of software and middleware services and tools with the specialized needs of humanities research groups. This grant will help realize the power of cyberinfrastructure to create, disseminate, and preserve data, information, and knowledge across multiple centers and humanities research groups. Effective technological developments undertaken in this grant will allow humanities scholars to focus their intellectual and scholarly energies on the issues that engage them while simultaneously training them to be effective users of new media and technologies. We envision that each collaborating center’s mini-residence will evolve with new technologies and methods as time passes and that each year a different set of advanced humanities research groups will participate and take advantage of the infrastructure and results generated by this grant. Historian Edward L. Ayers conceived of such partnership in 1991 when became clear that hypermedia and high performance computing offered new possibilities for doing local studies. Ayers commented that much of the work of developing the award-winning *Valley of the Shadow*⁴ project was analogous to building a printing press when none existed. Seventeen years later, projects like this are becoming more common within the humanities; yet the vast majority of humanities scholars are still daunted by the humanities-computational sciences divide. They do not have the computational expertise necessary to exploit high performance computing software and hardware to support their research. H^PCs’ collaboration will bring together advanced topics in humanities research with high

performance computing staffs to train and tailor each technology to the needs of individual humanities groups. It will build on the experiences and successes of seven humanities-high performance computing programs held at locations including NCSA and SDSC with members of I-CHASS and the Software Environment for the Advancement of Scholarly Research (SEASR) group at NCSA. (See Appendix VI: Previous Workshop Experience.) While the summer workshops provided a broad-based introduction to digital tools for the humanities, arts and social sciences, H^PC will foster intensive collaboration between humanities research groups and multiple high performance computing centers that result in specific technical and human infrastructures to support humanities research. H^PC will consist of a core set of presentations and hands-on sessions in computational technologies for humanities activities and will move beyond the simple introduction of available resources and expertise of each collaborating high performance computing center to map these computational resources to the needs of each humanities research group. More simply, invited groups will be paired with high performance computing experts in a particular subfield (Simulation and Modeling, Social Networking, Grid and Distributed Computing, Data Analytics, and Visualization) who will work with the group to introduce, create, and adapt existing technology for use within their project. By the close of H^PC, each humanities group will have a clearly delineated pathway for the inclusion of specific technologies into their work and research and will have begun to adapt these resources to meet their particular needs.

Institutional Profile:

The University of Illinois at Urbana-Champaign has long been at the forefront of science, technology, and burgeoning computer power beginning fifteen years ago when MOSAIC, the world's first web browser, was developed at the National Center for Supercomputing Applications (NCSA). MOSAIC has revolutionized research and teaching because it democratized access to information. Now bringing the same advances to the humanities, I-CHASS charts new ground in high performance computing and the humanities, arts, and social sciences by creating both learning environments and spaces for digital discovery. Founded in 2004, I-CHASS presents path-breaking research, computational resources, collaborative tools, and educational programming to showcase the future of the humanities, arts, and social sciences by engaging visionary scholars from across the globe to demonstrate approaches that interface advanced interdisciplinary research with high-performance computing. I-CHASS provides these researchers with leadership-class computational resources, both human and technical, to enhance their knowledge discovery and exploration. I-CHASS maintains strategic partnerships with the National Center for Supercomputing Applications (NCSA), the Great Lakes Consortium for Petascale Computation (GLCPC)⁵, and the Illinois Informatics Institute (I3)⁶. These alliances uniquely position I-CHASS to offer unprecedented intellectual and technical expertise to aid humanities researchers in producing interdisciplinary research solutions that will positively affect the human condition and experience.

Organizational Structure: I-CHASS currently maintains a core staff of seven employees who work closely with humanities faculty, computing researchers, and research groups from across the globe. The Director of I-CHASS, Professor Vernon Burton, reports directly to the University of Illinois' Provost and meets weekly with the Executive Director, Dr. Kevin Franklin. The Executive Director ensures the day-to-day running of the Institute's operations and consults regularly with the Director, the I-CHASS Advisory Board, and NCSA leaders to discuss issues surrounding the Institute's strategic direction. The I-CHASS staff (Appendix V: Curriculum Vitae- I-CHASS Faculty and Staff) is complemented by the considerable experience and expertise of the 250 plus researchers, technology specialists, and staff who work at NCSA and from whom I-CHASS is able to draw upon as opportunities arise.

Facilities and Resources: Founded in 2004 as the only Digital Humanities Center birthed and hosted by a national supercomputer center, I-CHASS is uniquely positioned to strengthen digital humanities scholarship. I-CHASS is housed at NCSA and its Research I institution, the University of Illinois. NCSA is invaluable by bringing massive computational resources (Appendix VII: Computational and Logistical Resources) to the humanities by enabling new and more complex projects nationwide. NCSA employs top-level experts in every field crucial to humanities computing: sophisticated search and retrieval, data management and visualization, human-computer interaction, distributed, collaborative computing, and large-scale modeling and simulation. The computing expertise and resources available at NCSA, harnessed and channeled for the humanities through I-CHASS, can create cyberenvironments for digital-humanities research and entire virtual worlds for interactive education and study in the humanities. Further, as partners in TeraGrid, an open scientific discovery infrastructure combining leadership class resources at eleven partner sites to create an integrated, persistent computational resource, NCSA, PSC, and SDSC, have resources that include more than 750 teraflops of computing capability and more than 30 petabytes of online and archival data storage, with rapid access and retrieval over high-performance networks. Researchers can also access more than 100 discipline-specific databases.

Budget: H^PC is requesting \$XXX to fund nine mini-residencies, a two-day conference, and an online collaborative community that will serve forty-five humanities participants from outside of each center's region. This is in addition to fifteen high performance computing center staff participants. Cumulatively, then this grant will serve sixty individuals, not including virtual members who will benefit from the online community and twenty-one participants from humanities institutions local to each center's area (seven per center).

Curriculum Overview:

There will be nine two-day mini-residencies held by technical staffs (Appendix VII: Curriculum Vitae-High Performance Computing Center Staffs) at PSC, SDSC and NCSA. The humanities groups will each rotate through one supercomputer center per quarter- three center-driven residencies for a total of six days for this grant. The centers, working collaboratively, will each focus on training and tool building in their specific area of cyberinfrastructure excellence (Appendix IV: Curriculum Work Plan Itinerary and Appendix II: Collaboration Flowchart). The humanities research groups will receive a broad range of technical and human resource support for multiple technologies that will reinforce each other within their research agenda. The two-day culminating conference will bring together all participants to demonstrate prototypes of technology and tools that have been created/adapted, to disseminate their research experiences across the mini-residences, and to formulate a working paper "Coordinating High Performance Computing Institutes and Digital Humanities" which will chart long-term planning goals to cement these partnerships and further humanities research and computing technologies.

The Pittsburgh Supercomputing Center (PSC)⁷ is a joint effort of Carnegie Mellon University and the University of Pittsburgh together with Westinghouse Electric Company. It provides university, government, and industrial researchers with access to high-performance computing, communications and data-handling for unclassified research. PSC will provide a two day introduction to high performance computing and parallel programming to H^PC participants. This workshop will introduce participants to the fundamentals of high performance computing, parallel programming, common software packages, and provides practical, hands-on experience in how to write and execute parallel programs. For this audience, the goal is for participants to develop sufficient familiarity with this topic to determine how it might be of value in their research.

The San Diego Supercomputer Center (SDSC)⁸ enables scientific discovery and learning through provision of high performance data-intensive computing, analysis, management, and preservation technologies and expertise. Its education programs introduce the next generation users of new computing technologies to the skills and knowledge they will need to explore and discover answers to their generation's challenges. Hallmark programs and products focus on educator professional development (TeacherTECH)⁹ and a web portal for integrating data investigation tools and curricular activities into secondary level and college courses. Led by Reagan Moore, Director of the Data-Intensive Computing Environments (DICE)¹⁰ group, and Richard Marciano, Director of the Sustainable Archives and Library, the two-day SDSC *Data Challenges in the Humanities* mini-residence will feature case studies in humanities that highlight data curation and preservation challenges amenable to technology solutions; and community-led technology initiatives that have addressed similar challenges. The SDSC team will introduce an innovative data grid technology that equips users to handle a full range of distributed data management needs, from extracting descriptive metadata, to managing data, to moving it efficiently, sharing data securely with collaborators, publishing it in digital libraries, and archiving data for long-term preservation. One featured technology will be the Integrated Rule-Oriented Data System (IRods), an innovative "rule engine" that lets data collection users more easily accomplish complex data management tasks including validating the trustworthiness of digital repositories and developing community-wide policies to manage data. SDSC will work with the humanities groups to customize IRod and grid technologies for their individual use during the mini-residency and via the virtual community.

Researchers in the social sciences and humanities are increasingly using computers to manage, organize and analyze non-numerical data from textual sources including images, manuscripts, and video. The NCSA two-day mini-residence on Qualitative Data Analytics and Visualization would examine technologies for imaging, image analyses, and environments based on large volumes of data. Computer technologies available to humanities scholars would include (a) integration of historical spatio-temporal data with maps and web-based interfaces (georeferencing, spatial and temporal sampling, sub-setting, tiling and stitching, web-based open layers and server), (b) automated analysis of scans of historical manuscripts (color spaces, image statistics, classification, cropping), (c) 3D imaging using high resolution 2D images of historical artifacts or 2D videos (3D imaging principles, stereopsis, calibration, spectral properties), (d) analyses of large volumes of contemporary PDF documents (PDF document structure, information extraction and cleansing, clustering, versioning) and (e) self-describing executions of analyses using advanced workflow studio (preservation, scripting & workflow, provenance, tagging, distributed data & tools & computers.) Importantly, these collaborative discussions will focus on specific software solutions to the challenges faced by these humanities groups which range from understanding computational requirements using a desktop versus a supercomputer, data presentation formats from desktop visualizations to web-based data browsing and the technological challenges associated with simple image processing applied to large volumes of images including the more complex image analyses executed in real-time. Each humanities research group will creatively analyze, infer, and visualize their data sets, then present their work to the whole group via the virtual community feature of the H^PC grant.

Participants:

I-CHASS has selected three humanities research groups to be in residence for the grant. Each group will have approximately eight to twelve members from outside the region with an additional seven scholars from local institutions (museums and humanities departments) comprised of senior faculty, researchers, and graduate students in the humanities (Appendix III: List of Participants by Group and Appendix VI: Curriculum Vitae- Humanities Group Leaders).

The Scholarly Community for the Globalization of the "Middle Ages" (SCGMA) Group has been collaborating with SEASR, I-CHASS, the Center for Medieval Studies at the University of Minnesota-

Twin Cities, the Program in Medieval Studies at the University of Texas-Austin, and the Communications Department at the University of California-San Diego since May 2007 to develop a new interdisciplinary scholarly community for globalizing the study of the “Middle Ages”(~500-1500 C.E.)¹¹ SCGMA has been actively working to create an online infrastructure to support the organization of, and research with, sources in multiple formats and languages available from multiple scholarly disciplines in order to organize large quantities of textual, visual, and aural resources. SCGMA is intended to become a multi-university, multi-nation, disaggregated yet well-coordinated organization spearheading numerous scholarly projects that will challenge the Euro-centrism associated with studying the “Middle Ages.” SCGMA needs to consider adapting existing technologies for its needs and plans to investigate the following: Can a coordinated online resource be developed for students at all levels, from all parts of the globe, already fascinated by aspects of this crucial period but still insufficiently informed about its diversity and range? How can existing databases in many languages and formats, sometimes reflecting different cultural practices, be brought into communication to serve the needs of the developing SCGMA and of students and other interested parties worldwide? H^PC will allow SCGMA to extend its current use of high performance technologies, resulting from its previous work with ICHASS and SEASR to encompass a more elaborate technological model. The grant offers SCGMA the opportunity to add new technology to its growing infrastructure while simultaneously establishing long-term partnerships.

The University of Southern California's Institute for Multimedia Literacy (IML)¹² has faced a material challenge for the past eight years in realizing one of its primary goals: creating a digital archive system in support of the creation of digital portfolio application.¹³ The lack of sufficient computational resources for holding large collections of multimedia resources, most notably its robust digital portfolio of media-rich student projects and faculty teaching resources, has hindered IML's creation of a pedagogical tool for faculty and students. The Humanistic Algorithms project is a collaboration between SEASR, ICHASS, and IML to address this challenge. The project is being imagined in phases, with the first stage to serve as a prototype to be completed by early June. SEASR will use data analytics to extract information from unstructured texts (i.e., raw textual data like websites, etc.) to produce semantic information that can be used to create meta-analyses of scholarly multimedia. From these meta-analysis, Humanistic Algorithms would like to contemplate: What are the components of scholarly multimedia? What is pedagogy in a networked world? How do we collaborate, train faculty, and teach students how to read and compose scholarly multimedia? H^PC will allow Humanistic Algorithms the opportunity to further their technological efforts by isolating and adapting additional high performance computing technologies that will aid in the development of the digital portfolio application. The series of mini-residencies will allow the group to experiment with new technologies and chart long-term technological planning goals that will enable the program to move forward with its multi-university project.

The HistorySpace Project brings together humanities scholars experimenting with Information Rich Virtual Environments (IRVE) that express combinations of textual, graphic, sonic and three- and four-dimensional forms of expression in order to collaborate on workflows and disciplinary conventions and protocols that will transition humanities scholars from print to virtual media production. With the emergence of XML (Extensible Markup Language), related XML-dialects Like SVG (Scalable Vector Graphics) and X3D, humanities scholars have been able to generate and distribute over the Internet unprecedented datasets and dynamic representations of objects and environments. Combining primary source data with visual imaging and scholarly analysis, IRVEs offer tremendous potential to create elaborate three and four-dimensional renderings of the past. Historians have already begun to appropriate IRVEs as a new method of scholarly communication: the *Aurora Project*, *Virtual Jamestown*,¹⁴ and the *3D Virtual Buildings Project* have begun to experiment with two- and three-dimensional forms of representation to support analysis, expression, and education. Despite these emerging competencies and digital resources, the historical discipline is still not ready to appropriate IRVEs on a widespread basis. When historians generate print-based materials, they rely on established disciplinary criteria to narrate, document, and develop their analysis. Yet, humanities scholars can lay claim to no analogous sets of

workflows and conventions to govern content creation, expression, dissemination and peer review for IRVEs. The HistorySpace Project will conceive, construct and test IRVE workflows, conventions, and accompanying tools to support their operation and expression by humanities scholars. H^PC will allow the HistorySpace Project, which has been collaborating with the NCSA, to take the next step in its project design. As of June 2008, HistorySpace, in conjunction with participants at NCSA, will have constructed an elaborate network of storyboards and workflow charts that will serve as the iterative, scenario-based design method that will structure the IRVE. This grant will allow HistorySpace to consult with high performance computing specialists in order to refine their IRVE methodological structure, consider the integration and adaptation of additional high performance computing tools, and begin construction of its first prototype IRVE.

Impact and Evaluation:

Findings from this project will be disseminated in traditional and innovative ways. We will encourage and maintain collaboration among humanities and high performance computing participants by creating a web-portal that allows electronic dissemination and maintains a constant web-based presence. The primary goal of disseminating experience, breakthroughs and learned lessons will be achieved by putting the mini-residences online via webcast. The secondary goal will be facilitated by the inclusion of modules embedded in the portal that allows activities tracking (provenance data), collaboration support (including blogs, chat, and wikis), and networking support. Creating a multi-way networked activity centered on the digital humanities, the experience, breakthroughs, and lessons learned from each project will be disseminated to the wider humanities academic audience and the general public through our virtual community in addition to the more traditional online papers, journal articles and research reports. Our ambition is to achieve continual and energetic discussion and collaboration for each group and as a collaborative. H^PC involves a unique combination of assets: 1) it will further the research efforts of the selected humanities research groups; 2) it will allow for the refinement of technologies by computational scholars and humanities users; 3) it will create a collaborative infrastructure and virtual community accessible to scholars across humanities. The mini-residences and the two-day conference, which will be webcast, will culminate in an ever-evolving planning memorandum, "Coordinating High Performance Computing and the Digital Humanities." It will outline long-range technological planning goals that can be undertaken by the partnership and each humanities group upon completion of the grant and aid participants in charting the systematic planning and developmental goals needed to integrate these new technologies within their project. Beyond group participants, these long-range planning memoranda will continually evolve as new technologies, methods, and humanities groups join the collaboration and its parallel virtual community. In serving not just invited participants but also scholars interested in the humanities and digital technologies, H^PC captures the underlying intent of the National Endowment for the Humanities grant programs: to interest people in the Humanities and aid them in their quest to more fully understand human life and experiences.

Within the confines of H^PC, our evaluation process will be conducted via evaluation tools provided by the University of Illinois' Center for Instructional Research and Curriculum Evaluation (CIRCE) and the internal evaluation staff at NCSA. CIRCE has evaluated programs at all educational levels and will bring together humanities scholars experienced in evaluation to aid in the assessment of H^PC. They will collect data via surveys, content assessment instruments, and interviews over the course of the grant. Participants will be asked to assess the curriculum, a series evaluation to recommend strategies to improve the virtual

workshop and community, and a final qualitative evaluation that will track the continued use of these technologies and the efforts to secure additional grant funding dollars. Program administrators at each center will also be surveyed to consider the ways in which the collaboration can be strengthened and changed over time to better serve the technological participants and their needs.

Staff, Faculty, and Consultants (Appendix V: Curriculum Vitae- I-CHASS Faculty and Staff):

Principal Investigator: Orville Vernon Burton is Director of the Institute for Computing in Humanities, Arts, and Social Science (I-CHASS) at the University of Illinois, where he is Professor of History and African American Studies and serves as a Senior Research Scientist at the National Center for Supercomputing Applications, where he is Associate Director for Humanities and Social Sciences. Burton is the author of more than a hundred articles and the author or editor of fourteen books (one of which is on cd-rom), including *In My Father's House Are Many Mansions: Family and Community in Edgefield, South Carolina* and *The Age of Lincoln*.

Co-Principal Investigator: Kevin Franklin is Executive Director of the Institute for Computing in Humanities, Arts and Social Sciences (I-CHASS) and Senior Research Scientist for the National Center for Supercomputing Applications (NCSA). He is the former Executive Director of the University of California Humanities Research Institute and Deputy Director of the University of California San Diego Supercomputer Center. Dr. Franklin serves as co-chair for the Humanities, Arts and Social Science Research Group for the Open Grid Forum and on the Advisory Board for the Worldwide University Network Grid Advisory Committee. He designed and implemented the University of California systemwide online research proposal application tool and the Humanities, Arts and Social Science Grid (HASSgrid). He is a co-founder of the Humanities, Arts, Science and Technology Advanced Collaboratory (HASTAC).

Project Manager: Simon Appleford received a Masters of Arts in Modern American History and a Masters of Literature from the University of St. Andrews, Scotland before joining NCSA in 2005. His interests in digital technologies and American history have led to several publications including articles in *CTWatch Quarterly* and *Toward the Meeting of the Waters: Currents in the Civil Rights Movement in South Carolina* (University of South Carolina Press, 2007.) Simon was the principal organizer of e-Science for Arts and Humanities Research: Early Adopters Forum (2007), *Spatial Thinking in the Social Sciences and Humanities* (2006), and *Computing in Humanities, Arts, and Social Science* (2005). He is currently completing his Doctorate of Philosophy in History at the University of Illinois while serving as Project Manager at I-CHASS. Simon Appleford will be responsible for project coordination and collaboration between the high performance computing centers and the humanities groups including the maintenance of the virtual community and the grant's findings.

Senior Project Scientist: Peter Bajcsy received his Master of Science in Electrical Engineering from the University of Pennsylvania and his Doctorate in Electrical and Computer Engineering from the University of Illinois. Peter and the SEASR group have been investigating and developing solutions to real life problems in the application areas of remote and airborne sensing, geo-spatial information systems (GIS), target and scene modeling from multi-spectral and synthetic aperture radar (SAR) imagery, bio-informatics and health informatics, microscopy and medical image processing, automated information extraction and organization from large size image scans and PDF documents, 3D imaging and advanced sensor environments. He is currently employed in multiple positions at the University of Illinois: as the Associate Director for Data Analytics and Pattern Recognition at I-CHASS, as Adjunct Assistant Professor in the Electrical and Computer Engineering and Computer Sciences Departments, and as a Research Scientist in Image Spatial Data Analysis (ISDA) at NCSA. Peter Bajcsy will design and implement the education and training activities that will be hosted at NCSA.

Project Scientist: Alex Yahja earned his Ph.D. degree in computation, organizations and society from Carnegie Mellon University, Pittsburgh, PA, in 2006, and currently works on the interface between technologies and humanities, arts and social sciences at the National Center for Supercomputing Applications in Urbana, IL. The problems he has worked on include social drivers in disaster response, collaboration across disciplines, network-based recommendation, mapping of research activities, and semantics-based specification and collaboration. He received two M.Sc. degrees, one in engineering and public policy and one in robotics from Carnegie Mellon University, Pittsburgh, PA, in 2004 and 2000 respectively.

Project Scientist: Alan Craig has focused his career on the interface between humans and machines. He has been involved in many different capacities related to scientific visualization, virtual reality, data mining, multi-modal representation of information, and collaborative systems during his career at the National Center for Supercomputing Applications where he has worked for the past twenty years. Dr. Craig is co-author of the book *“Understanding Virtual Reality”*, published by Morgan Kaufmann Publishing, and author of the forthcoming book, *“Using Virtual Reality”*.

Project Coordinator: Jim Onderdonk is Associate Director for Education and Outreach with the Institute for Computing in Humanities, Arts and Social Sciences (I-CHASS). He also serves as Head, Conferences and Institutes (C&I), one of the divisions in the Office of Continuing Education at the University of Illinois at Urbana-Champaign. His undergraduate degree is from the College of William and Mary and his masters and doctorate are from Old Dominion University.

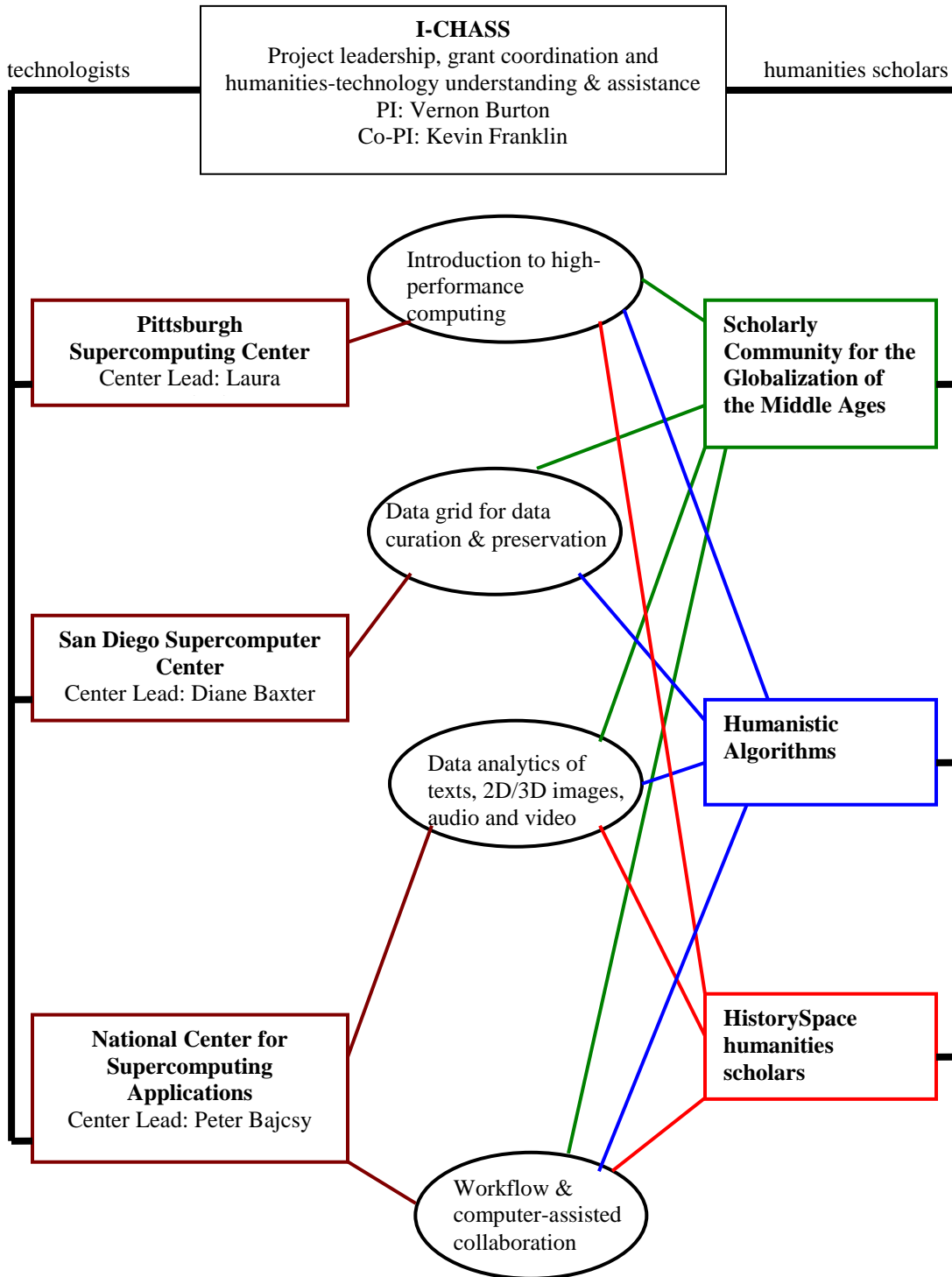
Appendix I: References

- 1.) The NEH has recognized the challenge associated with digital technologies and high performance computing for the humanities. In July of 2007, the NEH sponsored the “Humanities High Performance Computing” Conference which included inviting participants from High Performance Computing Centers and Digital Humanities Centers including the Institute for Computing in the Humanities, Arts, and Social Science along with representative from the San Diego Super Computing Center, The Institute for Advanced Technology and the Humanities at the University of Virginia, the Department of Energy and the National Science Foundation. That meeting served to open dialogues between these groups about the possibilities of a multi-center multi-group collaboration.
- 2.) We use the term “Humanities High Performance Computing” intentionally to signal an investment (structural, computational, and resource-based) in the extension of I-CHASS to serve as a portal for humanities scholars to receive technical support, access to high performance computing, and products and services associated with the digital technologies. We envision that additional centers will join this grant in later stages and I-CHASS will serve as a national entry point for humanities, arts, and social science researchers to receive high performance computational services at all levels of expertise from beginner to the most advanced humanities computing projects.
- 3.) The call for multi-center collaborations has been offered in the sciences as well in the humanities. “No one agency can – or should – carry all the weight of ensuring that our scientists have the computational tools they need to do their job”, spoke Dr. Raymond L. Orbach, Director of Science at the Department of Energy during his 2003 testimony before the House Committee on Science, “yet duplication of effort must be avoided.” See http://www.er.doe.gov/sub/speeches/Congressional_Testim/7_16_03_testimony.htm for his full comments.
- 4.) <http://valley.vcdh.virginia.edu>
- 5.) The Great Lakes Consortium for Petascale Computation is a collaboration among colleges, universities, national research laboratories, and other educational institutions that facilitates the widespread and effective use of petascale computing by developing new computing software, applications, and technologies. A “petascale” system is expected to be able to make arithmetic calculations at a sustained rate in excess of a sizzling 1,000-trillion operations per second (a "petaflop" per second) to help investigators solve some of the world's most challenging research problems. Please consult: <http://www.greatlakesconsortium.org/> for more information.
- 6.) I3 was established in 2007 at the University of Illinois to foster multi-disciplinary collaboration, support joint academic appointments, offer courses and academic programs, and sponsor research and technology development in informatics and its applications.
- 7.) <http://www.psc.edu>
- 8.) <http://www.sdsc.edu/>
- 9.) <http://education.sdsc.edu/teachertech/>
- 10.) <http://education.sdsc.edu/discoverdata/>
- 11.) For examples of the types of scholarship the SCGMA group is relying upon please consult: Thomas T. Allsen, *Culture and Conquest in Mongol Eurasia* (Cambridge, Eng.: Cambridge University Press, 2001); Geraldine Heng, "An Experiment in Collaborative Humanities: Imagining the World, 500-1500 C.E.," *Association of Departments of Foreign Languages (ADFL) Bulletin* 38 (3) and 39 (1), Spring-Fall 2007, 20-28; Peter R. Schmidt, and T. Patterson, *Making Alternative Histories: The Practice of Archaeology and History in Non-Western Settings* (Santa Fe: School of American Research, 1995); Susan Whitfield, and Ursula Sims-Williams, *The Silk Road: Trade, Travel, War, and Faith* (Chicago: Serindia Publications, 2004).
- 12.) <http://www.iml.usc.edu/>
- 13.) For information of digital portfolio applications and their relationship to humanities learning please

consult: The Electronic Portfolio Consortium, association of individuals from 50 countries and almost 600 higher education and IT commercial institutions, who are interested in the development of academic ePortfolio software systems and the establishment of standards for such systems, <http://www.eportconsortium.org/>; The Open Source Portfolio Initiative, a community of individuals and organizations collaborating on the development of the leading non-proprietary, open source electronic portfolio software, <http://www.osportfolio.org/>; Terence Love and Trudi Cooper, "Designing Online Information Systems for Portfolio-Based Assessment: Design Criteria and Heuristics," InSITE, Informing Science, June 2003.

14.) <http://www.virtualjamestown.org/>

Appendix II: Collaboration Diagram



Note: **brown** lines denote provision and **red/green/blue** lines denote priority interests

Appendix III: List of Participants By Group

High Performance Computing Centers: National Center for Supercomputing Applications

Appleford, Simon	Project Manager, Institute for Computing in the Humanities, Arts, and Social Science; Graduate Student, Department of History, University of Illinois
Bajcsy, Peter	Associate Director for Data Analytics and Pattern Recognition, Institute for Computing in the Humanities, Arts, and Social Science.
Burton, Vernon	Director of the Institute for Computing in the Humanities, Arts, and Social Science, Professor of History, African American Studies, and Sociology; Senior Research Scientist and Associate Directory for Humanities and Social Sciences at the National Center for Supercomputing Applications (NCSA).
Craig, Alan	Associate Director for Human-Computer Interaction, Institute for Computing in the Humanities, Arts, and Social Science.
Franklin, Kevin	Executive Director of the Institute for Computing in the Humanities, Arts and Social Sciences; Senior Research Scientist at the National Center for Supercomputing Applications (NCSA).
Guiliano, Jennifer	Ph.D. Candidate, Department of History, University of Illinois; Graduate Assistant, Institute for Computing in the Humanities, Arts, and Social Science; Graduate Assistant, Department of History.
Onderdonk, James	Associate Director for Education and Outreach, Institute for Computing in the Humanities, Arts, and Social Science.
Seawell, Stephanie	Graduate Student, Department of History, University of Illinois; Graduate Assistant, Institute for Computing in the Humanities, Arts, and Social Science; Graduate Assistant, Department of History.
Yahja, Alex	Assistant Director in Modeling, Institute for Computing in the Humanities, Arts, and Social Science.

Pittsburgh Supercomputing Center:

McGinnis, Laura F.	Project Manager, Data and Information Resource Services, Pittsburgh Supercomputing Center
Brown, Shawn T.	Sr. Scientific Specialist, Scientific Applications and User Services, Pittsburgh Supercomputing Center
Maiden, Tom	User Support and Outreach Specialist, Scientific Applications and User Services, Pittsburgh Supercomputing Center
Urbanic, John	Staff Computational Science Consultant, Strategic Applications, Pittsburgh Supercomputing Center

San Diego Supercomputer Center:

Baxter, Diane	Director of Education, San Diego Supercomputer Center
Moore, Reagan	Director, Data-Intensive Computing Environments (DICE) group, San Diego Supercomputer Center
Marciano, Richard	Director, Sustainable Archives and Library, San Diego Supercomputer Center

Humanities Groups:

The Scholarly Community for the Globalization of the “Middle Ages” (SCGMA) Group:

Allsen, Thomas	Professor Emeritus, College of New Jersey
Asher, Catherine B.	Associate Professor of Art History, University of Minnesota
Aytes, Ayhan	Visual Media Researcher and Graduate Student in Communications, University of California- San Diego
Boone, Jim	Associate Professor of Anthropology, University of New Mexico
Goldberg, David Theo	Director, University of California Humanities Research Institute (UCHRI); Professor of Comparative Literature and Criminology, Law, and Society at the University of California, Irvine.
Hart, Roger	Assistant Professor of History, University of Texas at Austin.
Heng, Geraldine	Director of Medieval Studies, Associate Professor of English; Holder of the Perceval Endowment in Medieval Romance, Historiography, and Culture at the University of Texas at Austin.
Ilnitchi, Gabriela	Assistant Professor of Musicology, University of Minnesota.
Kea, Ray A.	Professor of History, University of California, Riverside
Klieman, Kairn A.	Associate Professor of History, University of Houston, Texas.
Larkin, Margaret.	Professor of Arabic Literature, Department of Near Eastern Studies, University of California, Berkeley.
Liu, Xinru	Assistant Professor of Early Indian History and World History, College of New Jersey.
Martin, Will	Graduate Student, Department of Information Science, University of Texas, Austin.
McIntosh, Susan K.	Professor of Archaeology, Rice University.
Noakes, Susan	Director, Center for Medieval Studies, Professor of French and Italian, University of Minnesota, Twin Cities.
Phillips Jr., William D.	Director, Center for Early Modern History, Professor of History, University of Minnesota
Ragnow, Marguerite	Curator, James Ford Bell Library, University of Minnesota.
Saldanha, Arun	Assistant Professor, Geography, University of Minnesota.
Schmidt, Peter R.	Professor of Anthropology, University of Florida
Spellberg, Denise	Associate Professor of History and Middle Eastern Studies, Associate Director of Medieval Studies, University of Texas.
Urbam, Tomislav	Data and Information Service Group, Texas Advanced Computing Center.
Waltner, Ann B.	Director, Institute for Advanced Study, University of Minnesota.
Widner, Mike	Graduate Student, Medieval Literature, University of Texas, Austin.
Wilcox, Rebecca	Graduate Student

The Humanistic Algorithms: Semantic Networks in Multimedia Scholarship Group:

Arroyo, Sarah J.	Assistant Professor of English, California State University at Long Beach
Ball, Cheryl	Assistant Professor, English, Illinois State University; Editor of Kairos, refereed online journal exploring the intersections of rhetoric, technology, and pedagogy

Blalock, Glenn	Assistant Professor of Composition and Rhetoric, Department of English, Baylor University; Creator of CompPile, a scholarly database of journals in rhetoric and compositions.
Callahan, Vicki	Founder of the Conceptual Studies in Media Arts Production at the Peck School of the Arts (Film Dept), University of Wisconsin, Milwaukee
Franklin, Kevin	Executive Director, Institute for Computing in the Humanities, Art, and Social Science, University of Illinois
Haswell, Rich	Professor Emeritus, Department of English, Texas A & M, Corpus Christi; Creator of CompPile, a scholarly database of journals in rhetoric and compositions.
Hawisher, Gail	Professor of English and Director of the Center for Writing Studies, University of Illinois.
Holmes-Wong, Deborah Kuhn, Virginia	Archivist for Digital Media, University of Southern California Associate Director, Institute for Multimedia Literacy, University of Southern California
Selfe, Cynthia L.	Humanities Distinguished Professor, Department of English, Ohio State University
Vitanza, Victor J.	Professor of English and Director of the Ph.D. Program in Rhetorics, Communication, and Information Design, Clemson University
Wright, Elijah	Adjunct Lecturer and Graduate Student, School of Library and Information Sciences, Indiana University
Wysocki, Anne F.	Associate Professor English, University of Wisconsin, Milwaukee

The HistorySpace Project: Information Rich Virtual Environments for Historical Scholarship Group:

Ayers, Edward	President, University of Richmond; Aurora Project; <i>Valley of the Shadow</i> Project.
Bonnett, John	Assistant Professor, Humanities Institute, Department of History, Brock University (Canada)
Denard, Hugh	Professor, Centre for Computing in the Humanities, Director, King's Visualization, Lab King's College London; Editor, <i>Didaskalia</i> ; Member, <i>The Pompey Project</i>
Dunae, Patrick	Professor, Department of History, University of Victoria; Co-Director, Vi.History.ca (online); editor of The Homeroom, British Columbia's online history of education website.
Dunn, Stuart	Research Associate, Centre for Computing in the Humanities, King's College London.
Gilliland, Jason	Assistant Professor, Department of Geography; Director, Urban Development Program, University of Western Ontario.
Lutz, John	Professor, Department of History, University of Victoria; Co-Director, Great Unsolved Mysteries in Canadian History (online); Co-Director, Victoria's Victoria (online); Co-Director, Vi.History.ca (online); Co-Director, Who Killed William Robinson? Race Justice and Settling the Land (online).
Thomas III, William G.	John and Catherine Angle Professor in the Humanities Department of History, University of Nebraska; Aurora Project

Appendix IV: Curriculum Workplan Itinerary

Mini-Residence

<i>Mini-Residences</i>		
Day 1		
Tues.	Welcome to the Workshop	
7:00 PM	Welcome Dinner	Primary Collaborator- HP Center and HP Center Administration
Day 2		
Wed	Technology and the Humanities	
9:30-9:45 AM	Introduction to the Workshop Series	Primary Collaborator- HP Center
9:45-10:30 AM	Mini-Residence Research Goals and Objectives	Primary Collaborator- HP Center
10:30-11:00 AM	Introduction to the Research Project, their Goals, and Objectives	Humanities Research Group
11:00-12:15 AM	Lunch	
12:30-3:00 PM	Technology and your Research Group	HP Center technology staff
3:00-3:15 PM	Break	
3:15-4:45 PM	Technology and your Research Group pt. 2	HP Center technology staff
5:30 PM	Dinner	
Day 3		
Thurs	Adapting High Performance Computing Technology	
8:30-10:00	Adapting High Performance Computing Technology	HP Center technology staff
10:00-10:15	Break	
10:15-12:00	Adapting High Performance Computing Technology pt. 2	HP Center technology staff
12:00-1:00	Lunch	
1:00-3:30	Adapting High Performance Computing Technology pt. 3	HP Center technology staff
3:30-3:45	Break	
3:45-5:00	Long-Term Technology Planning	Primary Collaborator- HP Center

Summer Conference

<i>Conference</i>		
Day 1	Humanities Research	
8:30-8:45	Welcome Remarks	Vernon Burton, I-CHASS
8:45-10 AM	Humanities Research Group 1 Presentation	<i>The Scholarly Community for the Globalization of the "Middle Ages" Group, Susan Noakes, lead.</i>
10-11:15 AM	Humanities Research Group 2 Presentation	<i>The Humanistic Algorithms: Semantic Networks in Multimedia Scholarship Group, Virginia Kuhn, lead.</i>
11:30- 1 PM	Lunch	
1- 2:15 PM	Humanities Research Group 3 Presentation	<i>The Human- and Cyber-infrastructures to Study and Combat Violence Group, Heidi Beirich, lead.</i>
2:15-3:30 PM	Humanities Research Group 4 Presentation	<i>The HistorySpace Project: Information Rich Virtual Environments for Historical Scholarship, John Bonnett, lead.</i>
3:30-3:45 PM	Break	
3:45-4:30	Discussion: and "Issues of Technology and the Digital Humanities"	All participants
6:30-7:30 PM	Dinner	
Day 2	The Digital Future of Humanities Research	
9-11:30	"Coordinating High Performance Computing and the Digital Humanities"	All participants
11:30- 1 PM	Lunch	
1-3 PM	Open Discussion	All participants
3- 4 PM	Evaluation	CIRCE Staff
4:00-4:15 PM	Closing Remarks	Kevin Franklin, I-CHASS

Appendix V: Curriculum Vitae
I-CHASS Faculty, Staff, and Consultants

ORVILLE VERNON BURTON

Professional Preparation

Furman University History B.A. 1969
Princeton University History M.A. 1971
Princeton University History Ph.D. 1976

Appointments

2004 – Present Director, Institute for Computing in Humanities, Arts, and Social Science
2003 – Present Associate Director, Humanities and Social Sciences, National Center for Supercomputing Applications (NCSA) at University of Illinois Urbana Champaign (UIUC)
2001 – Present Executive Director, Lowcountry and Atlantic World Program, College of Charleston
2000 – 2001 Mark W. Clark Visiting Distinguished Chair, The Citadel
1995 – Present Senior Research Scientist, NCSA
1993 – 2003 Head Initiative for Social Science and Humanities at NCSA
1991 – 1995 Professor, NCSA
1989 – Present Professor, History, UIUC
1989 – Present Professor, Sociology, UIUC
1988 – 1991 Adjunct Professor, NCSA
1987 – Present Faculty Affiliate, Afro-American Studies and Research Program, UIUC
1986 – 1988 Faculty Affiliate, NCSA
1986 -- Present Professor Campus Honors Program, UIUC
1982 – 1989 Associate Professor, History, UIUC
1981 – Present Graduate College Statistics Faculty, UIUC
1976 – 1982 Assistant Professor, History, UIUC
1974 – 1976 Instructor, History, UIUC
1972 – 1974 Assistant Master, Woodrow Wilson Residential College, Princeton University
1971 – 1972 Instructor, Mercer County Community College, New Jersey

Publications

editor, *Computing in the Social Sciences and Humanities*. Urbana: University of Illinois Press, 2002 (Recognized as a Choice” Outstanding Academic Book, 2003”).
(edited with David Herr and Terence Finnegan) *Wayfarer: Charting Advances in Social Science and Humanities Computing*. Urbana: University of Illinois Press, 2002. CD-ROM contains more than 65 essays and research and teaching applications, including illustrative interactive multimedia materials.
(with Ian Binnington, David Herr, and Matthew Cheney) “Computer Mediated Learning Environments: How Useful Are They?,” *AHR Perspectives: Newsmagazine of the American Historical Association* 41:1 (January 2003): 14, 22 (More detailed Carnegie Report as “Historians Face the E-Future: Findings from the Carnegie Scholar Survey on Computer Mediated Learning Environments,” at AHA Website www.theaha.org/perspectives/issues/2003/0301/0301not3.cfm) and expanded version published as “What Difference Do Computers Make? History, Historians, and Computer-Mediated Learning Environments,” *History Computer Review* 19 (Spring 2003): 98-103.
(with Simon Appleford) “The Illinois Center for Computing in Humanities, Arts, and Social Science,” *Cyberinfrastructure Technology Watch Quarterly (CTWatch)* <http://www.ctwarch.org>. May, 2007.
"Complementary Processing: A Supercomputer/Personal Computer U.S. Census Database Project" in

Supercomputing 88, vol. 2 Science and Applications. Edited by Joanne L. Martin and Stephen Lundstrom. Washington, D.C.: IEEE Computer Society Press, 1990, pp. 167-177.

The Age of Lincoln. New York: Hill and Wang, 2007. Recipient of the 2007 Heartland Award.

In My Father's House Are Many Mansions: Family and Community in Edgefield, South Carolina.

Chapel Hill: University of North Carolina Press, 1985 (paperback edition 1987; 5th printing 1998). *In My Father's House* was nominated by the University of North Carolina Press for the Pulitzer Prize. Two professional academic Associations have featured this book in sessions at their annual meetings: Social Science History Association, 1986; Southern Historical Association, 1987.

"American Digital History," *Social Science Computer Review* 23: 2 (Summer 2005): 206-220.

(with Terence Finnegan, Peyton McCrary, and James W. Loewen) "South Carolina" chap. 7, pp. 191-232, 420-432 in *The Quiet Revolution in the South: The Impact of the Voting Rights, 1965-1990*. Edited by Chandler Davidson and Bernard Grofman. Princeton: Princeton University Press, 1994. (Winner of the 1995 Richard F. Fenno Prize, Legislative Studies Section, American Political Science Association)

"Reaping What We Sow: Community and Rural History," Presidential address in *Agricultural History* 76: 4 (Fall 2002): 631-58.

synergistic activities

U.S. Professor of the Year, Outstanding Research and Doctoral Universities Professor (Council for Advancement and Support of Education and Carnegie Foundation for the Advancement of Teaching) 1999 recognized for the introduction of Information Technology into the Classroom and the study of Diversity in the Classroom; American Historical Association Eugene Asher Distinguished Teaching Award, 2003; appointed Organization of American Historians Distinguished Lecturer, 2004-07

Certificate of Excellence from the Carnegie Academy for the Scholarship of Teaching and Learning for Work that Advances the Practice and Profession of Teaching In Support of Significant Student Learning, June 28, 2001.

Named one of the first three University of Illinois at Urbana Champaign University "Distinguished Teacher/Scholar" 1999.

Organized number of meetings. (selected) 1993: organized, hosted, and chaired the annual meeting of the Conference on Computing for the Social Sciences at the National Center for Supercomputing Applications at Illinois Edited special issue of *Social Science Computer Review* 12:2 (Summer 1994) from papers presented at conference. 2003: organized three meetings-A Workshop on Diversity and Racism in the Classroom for university faculty, public school teachers, and the community (January as co-chair of Martin Luther King, Jr. Week at UIUC); organized a Conference on the Scholarship of Teaching and Learning for Illinois Faculty (Jan.); organized a conference on the Civil Rights Movement in South Carolina at The Citadel in Charleston, S.C. (March) As Director of Institute for Computing in Humanities, Arts, and Social Science regularly host workshops on cyber infrastructure and information technology- 2007 hosted workshops on GIS with Luc Anselin and Grid Computing with English e-science scholars. Currently preparing books and reports from each of these workshops.

collaborators and other affiliations

1. Collaborators: Simon Appleford, UIUC; Ian Binnington, Allegheny College., Richard Braatz (UIUC), Beatrice Burton, University of Georgia; Georganne B. Burton, spouse; Matthew Cheney (UIUC); Terence Finnegan, William Paterson U.; David Herr, St. Andrews College; Eric Jakobsson (UIUC), Mark Kornbluh (Michigan State U.), Winfred Moore, The Citadel; David O'Brien, UIUC; James Onderdonk, UIUC; Richard Pate (Danville Community College); Deanna Raineri (UIUC),

2. Advisors: F. Sheldon Hackney, U. of Pennsylvania and James M. McPherson, Princeton U.

KEVIN FRANKLIN

Executive Director, Institute for Computing in the Humanities, Arts and Social Sciences
Senior Research Scientist, National Center for Supercomputing Applications
University of Illinois at Urbana Champaign
1205 W. Clark Street
Urbana, IL 61801
Phone: 217-265-4044
Cell: 858-336-8285

Professional Preparation

Old Dominion University Psychology B.S 1982
Old Dominion University Education M.S. 1984
University of San Francisco Organization and Leadership Ed.D. 1993

Appointments

Executive Director, Institute for Computing in the Humanities, Arts and Social Sciences, University of Illinois, Senior Research Scientist National Center for Supercomputing Applications, Urbana Champaign, July 2007 – present
Executive Director, University of California Humanities Research Institute, UC Irvine, 2002-2007
Deputy Director, University of California Supercomputer Center, UC San Diego 2000-2001
Executive Director, Nonprofit Ventures, Inc, 1998-2000
Interim Executive Director, Summerbridge National, 1997-1998
Senior Fellow, San Francisco State University, Urban Institute, 1993-1997
Director, San Francisco State University, Urban Scholars Program, 1992-1994
Founding Executive Director, Multicultural Alliance, 1989-1997

Publications

Co-Editor, Cyberinfrastructure Technology Watch Quarterly Journal, May 2007
HASS Editor, GridToday, News and Information for Global Grid Communities, 2003-
HASS Editor, HPCWire, News and Information for High Performance Computing Communities, 2003
Authored article, “Developing Teachers of Color”, Independent School Magazine, Winter 1991
Featured in interviews or profiles in New York Times, Los Angeles Times, United Airlines Hemispheres Magazine, Boston Globe, Connecticut Journal, Milwaukee Journal Sentinel, Marin Independent Journal, Essence Magazine, Black Issues in Higher Education, National Public Radio, Cable News Network, KPIX Bay Area Channel 5

Synergistic Activities

Conference Program Committees: Semantic and Knowledge Grid Conference, China 2006. National Center for eSocial Science Annual Conference, United Kingdom 2005, Latin American VIP Grid Summit, Costa Rica 2005, Richard Tapia, Diversity in Computing Conference 2001, U.S. Department of Education, Teacher Diversity Conference 1995.
Community-based Committees: California State Advisory Committee to the United States Commission on Civil Rights 1995-2004; Strategic Advisor, Costa Rica-United States Foundation, Costa Rica 2006- present; Director, Cyberinfrastructure Summer Institute for Humanities, Arts and Social Sciences, UCSD, 2006-2007; Chairperson, Executive Committee, Latin American Grid Alliance, CeNAT, Costa Rica 2003-present; Co-Chairperson, Humanities, Arts and Social Science Research Group, Global Grid Forum, 2003-present; Vice-Chair, UC Office of the President, Humanities, Arts, Social Sciences Technology Council, 2004-2007; Worldwide University

Network Grid Advisory Committee, United Kingdom, 2003-present; Trustee, Branson School, Ross CA 1995-1997; Trustee, Marin Horizon School, Marin CA 1992-1996; Trustee, Phillips Brooks School, Palo Alto, CA 1991-1997; Trustee, East Bay French American School, Oakland 1993-1995; Advisory Board Member, School of Education, San Francisco State University 1995-1997; Advisory Board Member, School of Education, University of San Francisco 1996-1997; Chairperson, Teacher Certification Committee, San Francisco State University 1993-1994; Fellowship Advisory Committee, Rockefeller Brothers Fund 1995.

Technical Leadership: Chief-Architect, “FastApps” UC System-wide Online Research Proposal Applications System 2002; Co-Lead, Testbed for Redlining Archives of California’s Exclusionary Spaces UC Irvine, 2006-2007.

Founder/Director, Community Collaborations: Director, Humanities, Arts and Social Science Grid, UC Irvine, 2004-2007; Co-Founder, Humanities, Arts, Science and Technology Advanced Collaboratory, UC Irvine, 2002.

Lead Fundraiser: Fundraiser for successful grants for totaling \$53 million from industry, agencies and foundations including Mobil, ARCO, Kellogg Foundation, Philip Morris Companies, Kraft Foods, Levi Strauss, Hewlett Packard, ORCALE, Mary A. Crocker Trust, Danforth Foundation, Gap Foundation, Hearst Foundation, Rockefeller Brothers Fund, Milwaukee Public Schools, Independent Schools Associations, Corporation for National Service, Los Angeles Jewish Community Foundation, Institute of Museum and Library Sciences.

SIMON J. APPLEFORD

Project Manager, Institute for Computing in Humanities, Arts, and Social Science (ICHASS)
National Center for Supercomputing Applications
University of Illinois at Urbana Champaign
1205 W. Clark Street
Urbana, IL 61801
Phone: 217-265-4044
Cell: 858-336-8285

Professional Preparation

University of St Andrews Modern History M.A. 2000
University of St Andrews Modern American History M.Litt. 2001
University of Illinois at Urbana-Champaign, Ph.D. (in progress) in History, 2007-present

Appointments

Project Manager, University of Illinois Institute for Computing in the Humanities, Arts and Social Sciences, Urbana Champaign, February 2007 – present
Visiting Project Specialist, National Center for Supercomputing Applications, 2005-2007
Production Editor, Omegatype Typography, 2004-2005
Senior Technology Specialist, FedEx Kinko’s, 2003-2004
Publishing Assistant, Leckie & Leckie, 2001-2002

Publications

(with Burton, V. and Onderdonk, J.) “A Question of Centers: One Approach to Establishing a Cyberinfrastructure for the Humanities, Arts, and Social Sciences,” *CTWatch Quarterly*, Volume 3, Number 2, May 2007.
(with Burton, B. and Burton, V.), “Seeds in Unlikely Soil: The Briggs v. Elliott School

Desegregation Case” in *Toward ‘the Meeting of the Waters’: Currents in the Civil Rights Movement in South Carolina*, ed. Vernon Burton and Winifred B. Moore, Jr., University of South Carolina Press, 2007.

Synergistic Activities

Project Manager for RiverWeb Project (www.riverweb.uiuc.edu)
Organized several conferences and workshops for I-CHASS: e-Science for Arts and Humanities Research: Early Adopters Forum, 2007; Spatial Thinking in the Social Sciences and Humanities, 2006; Computing in Humanities, Arts, and Social Science, 2005.

Collaborators

(a) Collaborators: Vernon Burton, UIUC; Beatrice Burton, University of Georgia; Kevin Franklin, UIUC; Mark Kornbluh (Michigan State University); Kalev Leetaru (UIUC); David O’Brien, UIUC; James Onderdonk, UIUC; Troy Smith, UIUC

(b) Advisors: Vernon Burton, UIUC; Stephen Spackman, University of St. Andrews; Timothy Minchin, La Trobe University

PETER BAJCSY

Professional Preparation.

Slovak Technical University, Bratislava, Czechoslovakia
Major: Technical Cybernetics and Measurement Techniques
Degree & Year: Diploma Engineer, 1987
University of Pennsylvania, Philadelphia, PA
Major: Electrical Engineering
Degree & Year: Master of Science, 1994
University of Illinois, Urbana-Champaign, IL
Major: Electrical and Computer Engineering
Degree & Year: Doctor of Philosophy, 1997

Appointments.

2003 – Present Adjunct Assistant Professor ECE, UIUC
2002 – Present Adjunct Assistant Professor CS, UIUC
2001 – Present Research Scientist NCSA
1998 – 2001 Senior Scientist SAIC/DEMACO, Inc., Champaign, IL.
1997 - 1998, Senior Software Engineer Cognex Corporation, Acumen Products Group, Portland, OR

Publications. (Most Recent)

1. R. Kooper, A. Shirk, S.-C. Lee, A.Y. Lin, R. Folberg and P. Bajcsy, "3D medical volume reconstruction using Web services." *Computers in Biology and Medicine*, accepted 2008.
2. S.-C. Lee and P. Bajcsy, "Trajectory fusion for three-dimensional volume reconstruction." *Computer Vision and Image Understanding* In Press, doi:10.1016/j.cviu.2007.02.005, Available online (2007)
3. A.Y. Lin, Z.M. Ai, S.-C. Lee, P. Bajcsy, J. Pe'er, L. Leach, A.J. Maniotis and R. Folberg, "Comparing vasculogenic mimicry with endothelial cell-lined vessels: Techniques for 3D reconstruction and quantitative analysis of tissue components from archival paraffin blocks." *Applied Immunohistochemistry and Molecular Morphology* **15** p113-119 (2007)

4. P. Bajcsy, "An Overview of DNA Microarray Image Requirements for Automated Processing." *Computer Society of India Communications* **30** p18-23 (2007).

5. S.-C. Lee and P. Bajcsy, "Understanding Challenges in Preserving and Reconstructing Computer-Assisted Medical Decision Process", *Proceedings of the 6th International Conference on Machine Learning and Applications, ICMLA 2007, Cincinnati, USA, 2007.*[submitted]
6. S.-C. Lee, P. Bajcsy, A.Y. Lin and R. Folberg, "Accuracy evaluation for region centroid-based registration of fluorescent CLSM imagery." *EURASIP Journal on Applied Signal Processing* **15** Article ID 82480, p1-11 (2006).
7. P. Bajcsy, "An overview of DNA microarray grid alignment and foreground separation approaches." *EURASIP Journal on Applied Signal Processing* **15** Article ID 80163, p1-13 (2006).
8. S.-C. Lee and P. Bajcsy, "Intensity correction of fluorescent confocal laser scanning microscope images by mean-weight filtering." *Journal of Microscopy* **221** p122-136 (2006).
9. P. Bajcsy, S.-C. Lee, A.Y. Lin and R. Folberg, "Three-dimensional volume reconstruction of extracellular matrix proteins in uveal melanoma from fluorescent confocal laser scanning microscope images." *Journal of Microscopy* **221** p30-45 (2006).
10. S.-C. Lee and P. Bajcsy, "Spatial Intensity Correction of Fluorescent Confocal Laser Scanning Microscope Images", *Proceedings of the European Conference on Computer Vision, Workshop on Computer Vision Approaches to Medical Image Analysis (ECCV/CVAMIA 06)*, Graz, Austria, 2006, Lecture Notes in Computer Science **4241** p143-54 (2006)
11. S.-C. Lee and P. Bajcsy, "Three-dimensional Volume Reconstruction Based on Trajectory Fusion from Confocal Laser Scanning Microscope Images" *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR 06)* , New York, **Vol. 2**, p2221-2228 (2006).
12. S.-C. Lee and P. Bajcsy, "Automated Feature-based Alignment for 3D Volume Reconstruction of CLSM Imagery", *Proceedings of the SPIE International Symposium in Medical Imaging*, San Diego, p6144-105 (2006)
13. P. Bajcsy, S.-C. Lee and D. Clutter, "Supporting Registration Decision during 3D Medical Volume Reconstruction", *Proceedings of the SPIE International Symposium in Medical Imaging*, San Diego, p6144-119 (2006).
14. D.J. Scherba and P. Bajcsy, "Depth map calibration by stereo and wireless sensor network fusion." *Proceedings of the 8th International Conference on Information Fusion (FUSION)*, p8, July 25-28, 2005, Philadelphia, Pennsylvania.
15. M. Urban and P. Bajcsy, "Fusion of voice, gesture, and human-computer interface controls for remotely operated robot." *Proceedings of the 8th International Conference on Information Fusion (FUSION)*, p8, July 25-28, 2005, Philadelphia, Pennsylvania.
16. Peter Bajcsy, "An Overview of Microarray Image Processing Requirements.", *Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR 2005)*, 20-26 June 2005, San Diego, CA.

Synergistic Activities.

- Reviewer for journals, for example: Pattern Recognition 2007, Journal of Microscopy 2006; Computing in Science & Engineering, 2006; IEEE Transactions on Geoscience and Remote Sensing, 2005; International Journal of Applied Math and Computer Science 2005; IEEE on Pattern Analysis and Machine Intelligence, 2004
- Served on the NIST advisory board for the SHIELD project 2003-2004
- Served on NSF Information Technology Research (ITR) Review Panels for Division of Informative Biology and Division of Information & Intelligent Systems, 2004 (twice) and 2005 (once),
- Served as a program committee member on the IEEE Workshop on Computer Vision Methods for Bioinformatics, San Diego, June 2005 (in conjunctions with IEEE CVPR 2005).
- Contributions to the science of learning; Collaborates with biologists, neuroscientists, psychologists and veterinary medicine experts on bio-computing problems.

Collaborators

Robert Folberg, Dept of Pathology, University of Illinois, Chicago, IL;
 Praveen Kumar, Department of Civil and Environmental Engineering, UIUC, IL.
 Barbara Minsker, Department of Civil and Environmental Engineering, UIUC, IL.
 Gerald Nelson, Department of Agricultural and Consumer Economics, UIUC, IL;
 Dan Kuchma, Department of Civil and Environmental Engineering, UIUC, IL.
 Momcilo Markus, Illinois State Water Survey, Champaign, IL;
 Jean-Christopher Lementec CHI Systems, Inc., Philadelphia, PA;
 Wei Xie, ACNielsen, Chicago, IL;
 Evan DeLucia, Dept of Plant Biology, University of Illinois, Urbana, IL;

ALAN B. CRAIG

National Center for Supercomputing Applications (NCSA)
 University of Illinois at Urbana- Champaign
 (217) 244-1988
 acraig@ncsa.uiuc.edu

Professional Preparation

University of Illinois, Urbana, IL Secondary Education, B.S. 1983
 University of Illinois, Urbana, IL Computer Science, M.S. 1985
 University of Illinois, Urbana, IL Information, Science Ph.D. 2005

Appointments

University of Illinois at Urbana-Champaign:
 National Center for Supercomputing Applications – UIUC 1987 - present
 Visualization and Virtual Reality Group
 Texas Instruments – Dallas, Texas 1985 – 1987
 Defense Systems Electronics Group
 Software Design Engineer – Computer Systems Training Group

Publications (selected)

- "Chapter 35 -- Scientific Visualization" Sherman, William R., Craig, Alan B., Baker, M. Pauline, Bushell, Colleen The Computer Science and Engineering Handbook Ed: Allen B. Tucker, Jr. CRC Press (Boca Raton, FL), 1997
- C. Scaletti, A. Craig, "Using Sound To Extract Meaning From Complex Data", Extracting Meaning from Complex Data: Processing, Display, Interaction II, Edward J. Farrell, Editor, Proc. SPIE 1459, 207-219 (1991)
- D. Kovacic, A. Craig, R. Patterson, W. Romme, D. Despain, "Fire Dynamics in the Yellowstone Landscape, 1690-1990: An Animation", Model Driven Visual Simulation, Proc. Resource

Technology 90, Second International Symposium on Advanced Technology in Natural Resources Management (1990)

W. Cheng, A. Craig, I. Dilber "Computer Simulation of Dynamic Impact Processes: A Visual and Audio Representation", Finite Element Applications, ASME Computers in Engineering Vol II (1991)

W. Cheng, A. Craig, I. Dilber "Impact Penetration Modeling Using DYNA3D" (Manuscript) 1991
DYNA3D User Group Meeting, Bournemouth, England (1991)

Books:

Understanding Virtual Reality by William Sherman and Alan Craig – Morgan Kaufmann Publishing, September, 2002

Using Virtual Reality by Alan Craig, William Sherman, and Jeff Will – Morgan Kaufmann Publishing, in review

Book Chapter:

Chapter 194 – "Virtual Reality" Sherman, William R., Craig, Alan B. Encyclopedia of Information Systems Ed: Hossein Bidgoli Academic Press (San Diego, CA) 2003

Articles:

Literacy in Virtual Reality: A New Medium, William R. Sherman and Alan B. Craig, *Computer Graphics*, November 1995.

Virtual Reality Application Design Considerations Sherman, William R., & Craig, Alan B. Royal Society workshop on Virtual Reality in Society, Engineering and Science London, England, July 1995.

Synergistic Activities

Served as PI for the University of Illinois sub-award for NSF Grant # 0311088 "Scientific Visualization for Undergraduate Education."

Organized and hosted large-scale summer institute on Scientific Visualization (NSF Funded)

Organized and hosted multiple large-scale summer institutes on high performance computing
Project leader for the NCSA VIAS information management system. The VIAS System

(Visualization Information Archival System) is an automated, webcrawling facility that builds databases on topics of interest. The first database the system built was for information regarding scientific visualization.

Have served as paper reviewer and on technical program committees for various conferences and journals

Collaborators & Other Affiliations

• Collaborators and Co-Editors

Eric W. Johnson – Valparaiso University

William R. Sherman – Desert Research Institute

Douglas Tougaw – Valparaiso University

Jeffrey D. Will – Valparaiso University

• Graduate and Postdoctoral Advisors.

Graduate Advisor – Tim Wentling, University of Illinois at Urbana-Champaign

ALEX YAHJA

4038 NCSA Building, M/C 257

National Center for Supercomputing Applications

1205 West Clark St.

Urbana, IL 61801

Education:

Carnegie Mellon University, M.Sc., 2000, (Robotics)
Carnegie Mellon University, M.Sc., 2004, (Engineering and Public Policy)
Carnegie Mellon University, Ph.D., 2006, (Computation, Organizations and Society)

Professional Experience:

National Center for Supercomputing Applications, 2006-present
Assistant Director in Modeling, Institute for Computing in the Humanities, Arts, and Social
Science

Publications (selected):

Alex Yahja, Systematic Modeling and Evaluation of Historic Processes, American Association for
History and Computing, 2007, invited

Alex Yahja and Kathleen M. Carley, Simulation Validation: An Inferential Approach, Computational and
Mathematical Organization Theory, 2007, accepted

Mengxiao Zhu, Alex Yahja and Noshir Contractor, The Investigation and Design of Socially Realistic
First Responder Networks and Plans, the 4th UCLA Lake Arrowhead Conference on Human Complex
Systems, Lake Arrowhead, CA, 2007.

Alex Yahja and Kathleen M. Carley, WIZER: Automated Model Improvement in Multi-Agent Social-
Network Systems, in Scerri, P., Vincent, R., and Mailler, R.T. (Eds.), Coordination of Large-Scale
Multiagent Systems VIII, Springer Verlag, 2005, ISBN: 0-387-26193-1

Alex Yahja and Kathleen M. Carley, An Inferential Approach to Validating Agent Simulations, Agent
2007 Conference, Argonne National Lab, Chicago, IL, November 15-17, 2007

Alex Yahja, Sanjiv Singh, and Anthony Stentz, An Efficient On-line Path Planner for Outdoor Mobile
Robots Operating in Vast Environments, Robotics and Autonomous Systems, Vol. 33, No. 2&3, August
2000, pp. 129-143.

Research and Professional Record

North American Association for Computational Social and Organizational Science
International Network for Social Network Analysis
Society for Computer Simulations International

Research Interests

Human and social dynamics, computational social science, supercomputing, social networks, modeling
and simulation, causal analysis, collaboration and recommender systems, computational organization
theory, semantics & knowledge-based systems, and machine learning

Collaborators not mentioned in the publications

Elizabeth Casman, Douglas Fridsma, Demian Nave, Boris Kaminsky, Neal Altman, Li-Chiou Chen,
Virginia Bedford

Ph.D. Advisor
Kathleen Carley, Carnegie Mellon University

JAMES C. ONDERDONK

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Conferences and Institutes
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Champaign, IL 61820
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1808 Floral Park Drive
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Education

Management of Lifelong Education, Harvard University, 1997
Ph.D., Urban Services, Old Dominion University, Norfolk, Virginia, 1995
M.S. Ed., Old Dominion University, 1977
B.A., History, The College of William and Mary, Williamsburg, Virginia 1969

Professional Experience

Associate Director for Education and Outreach, Institute for Computing in Humanities, Arts, and Social Science, (I-CHASS), National Center for Supercomputing Applications, University of Illinois at Urbana- Champaign, Jan. 2007 – present

Head, Division of Conferences and Institutes, Office of Continuing Education, 1999-present and Interim Head and Associate Head, 1997-1999

In collaboration with members of the University community, Conferences and Institutes designs, plans and presents non-credit programs including conferences, seminars, short courses, certificate programs and annual meetings of professional societies. As Head, I:

- Provide day-to-day leadership of programmatic, financial, personnel and administrative functions of the division
- Represent the division to faculty, academic units and constituent communities to develop new outreach activities
- Supervise a staff of 15
- Prepare and monitor the divisional budget (\$2.9 million in FY07)
- Develop policies for appropriate expenditure of funds, cost recovery, and reconciliation of fund balances
- Provide liaison with the Illinois Manufacturing Extension Center
- Manage the Technical Assistance Center, a technology transfer program with the US Army's Construction Engineering Research Laboratory
- Act as administrative agent for Levis Faculty Center, a 20,000 sq. foot campus conference center

Adjunct Faculty, School of Education, Capella University, 2003-present

Teach online graduate courses in the history of higher education and finance of higher education.

Education Services Specialist, Federal Civil Service, Naval Medical Center, Portsmouth, Virginia. 1993-1997

- Managed all voluntary educational programs for personnel assigned to the Naval Medical Center, the largest center on the East Coast. Also responsible for programs at four other sites in southeastern Virginia.
- Planned and scheduled courses and degree completion programs -- remedial, vocational, undergraduate and graduate (78 courses with 1106 enrollments in

FY 96)

- Provided academic and vocational counseling and student services.
- Completed Contracting Officer's Technical Representative (COTR) training for contracts at Naval Education and Training Support Center, Atlantic.

Education Services Officer, Department of the Navy. 1982-1993

- Progressively more responsible assignments for Naval Education and Training Commands both in Norfolk, Virginia, and in the United Kingdom (1985-1989; managed seven different sites in Scotland, England and Wales)
- Supervised professional and support staff at the Navy's largest single education office in Norfolk, Virginia; secret security clearance.

Assistant P.A.C.E. Coordinator, Florida Junior College at Jacksonville, Norfolk, Virginia, Office. 1980-1982

- Coordinated the Program for Afloat College Education, a non-traditional higher education program providing educational opportunities for shipboard personnel.

Project Coordinator, Center for Educational Research, Old Dominion University.
1979-1980

Assistant Instructor (Old Dominion University) and Adjunct Instructor (Christopher Newport College, Office of Continuing Education). 1975-1977

Reading consultant and classroom teacher, Newport News Public Schools, Newport News, Virginia.
1970-1973 and 1977-1979

Publications

Onderdonk, J. (2008, in press). Revivals in Antebellum America. In Gale Library of Daily Life: American Civil War. Farmington Hills, Michigan: Gale-Cengage.

Onderdonk, J. (2008, in press). Public Reaction to Lincoln's Gettysburg Address. In Gale Library of Daily Life: American Civil War. Farmington Hills, Michigan: Gale-Cengage.

Onderdonk, J. (2008, in press). The Freedom Riders: Two Personal Perspectives. In D. O'Brien (Ed.), Remembering Brown at Fifty: The University of Illinois Commemorates Brown v. Board of Education, Urbana: University of Illinois Press.

Burton, O., Onderdonk, J. & Appleford, S., (2007, in review). Keeping Up With the e-Joneses: The Role of Technology in the Democratization of Education. In W.Cope and M. Kalantzis (Eds.), Ubiquitous Learning, Urbana: University of Illinois Press.

Onderdonk, J., (2007). David Walker's Appeal. In Gale Library of Daily Life: Slavery in America. Farmington Hills, Michigan.

Onderdonk, J., (2007). The Confessions of Nat Turner. In Gale Library of Daily Life: Slavery in America. Farmington Hills, Michigan.

Burton, V., Appleford, S., & Onderdonk, J. (2007) A Question of Centers: One Approach to Establishing a Cyberinfrastructure for the Humanities, Arts, and Social Sciences. CTWatch (Cyberinfrastructure Technology Watch) Quarterly, Vol 3., No 2.
<http://www.ctwatch.org/quarterly/articles/2007/05/a-question-of-centers/>

Onderdonk, J., Osteen, J. , & Brinton, R., (1996). PRIMEd to Break Ranks: Restructuring in the Norfolk School System. NASSP Bulletin (National Association of Secondary School Principals) 80, 82-89.

Onderdonk, J.C. (1995). Teacher Roles for the 21st Century. Unpublished doctoral dissertation, Old Dominion University, Norfolk, Virginia.

Presented

Onderdonk, J. (2007, October). RiverWeb: Technology and Outreach.
Paper

Papers presented at the 2007 Outreach Scholarship Conference, Madison, WI.

Onderdonk, J. (2006, April). Evaluating Collaborative Programs – the Anna Karenina Approach.
Paper presented at the University Continuing Education Association (UCEA) 91st Annual Conference,

San Diego, California
Schejbal, D. & Onderdonk, J. (2000, January). To Collaborate or Not to Collaborate.
Paper presented at the University Continuing Education Association
Workforce Development Forum, St. Petersburg Beach, Florida

Appendix VI: Curriculum Vitae- Humanities Group Leaders

CHERYL E. BALL

Department of English
Campus Box 4240
Illinois State University
Normal, IL 61790-4240

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ACADEMIC APPOINTMENTS

Assistant Professor, English Department, Illinois State University. 2007–present.
Visiting Scholar, English Department, The Ohio State University. June 2007.
Assistant Professor, English Department, Utah State University. 2004–2007.
PhD in Rhetoric & Technical Communication, Michigan Technological University, 2005; Dissertation: A New Media Reading Strategy. Committee: Anne Wysocki (chair), Cynthia Selfe, Diana George
MFA in Poetry, Virginia Commonwealth University, 2000. Thesis: Dinner for One [Firstinteractive, electronic thesis at VCU]. Chair: T.R. Hummer
BA in English/Creative Writing, Old Dominion University, 1996. Magna Cum Laude
(2006–present). Kairos: A Journal of Rhetoric, Technology, Pedagogy. Co-Editor.
(2001–2006). Kairos: Rhetoric, Technology, Pedagogy. Co-Editor, CoverWeb section.
(2002–present). Computers & Composition Online. Editorial Board Member.
(2003–04). Computers & Composition. Associate Editor.
(2000–03). Computers & Composition. Assistant Editor.
(2002). College Composition & Communication. Editorial Intern.
(1994–00). Various editorial roles in corporate and academic settings. Ask for details.

Ball, Cheryl E., & Kalmbach, Jim. (Eds.). (under contract). RAW: Reading and writing new media. Hampton Press: Creskill, NJ.

DeWitt, Scott Lloyd, & Ball, Cheryl E. (forthcoming: 2008, Summer). Kairos: A Journal of Rhetoric, Technology, Pedagogy, 12(3). [Special issue: Manifestos!].

Ball, Cheryl E., & Hawk, Byron. (Eds.). (2006, September). Computers & Composition, 23(3). [Special issue: Sound in/as compositional space: A next step in multiliteracies].

Ball, Cheryl E., & Hawk, Byron. (Eds.). (2006, Fall). Computers & Composition Online. [Special issue: Sound in/as compositional space]. <<http://www.bgsu.edu/cconline/sound>>.

Ball, Cheryl E., & Moeller, Ryan. (2007). Reinventing the possibilities: Academic literacy and new media. Fibreculture. <<http://journal.fibreculture.org/issue10/>>.

Arola, Kristin L., & Ball, Cheryl E. (2007). A conversation: From “They call me doctor?!” to tenure. Computers & Composition Online. <<http://www.bgsu.edu/cconline/doctor/>>. [Invited].

Anderson, Daniel; Atkins, Anthony; Ball, Cheryl E.; Homicz Millar, Krista; Selfe, Cynthia; & Selfe, Richard. (2006). Integrating multimodality in composition curricula: Survey methodology and results from a CCCC Research Initiative grant. Composition Studies, 34(2).

Ball, Cheryl E. (2006). Designerly . readerly: Re-assessing multimodal and new media rubrics for writing studies. Convergences, 12, 393–412.

Ball, Cheryl E. (2006). Reading the text: A rhetoric of wow. *Kairos: Rhetoric, Technology, Pedagogy*, 10(2). <<http://kairos.technorhetoric.net/10.2/>>.

Ball, Cheryl E. (2004). Show, not tell: The value of new media scholarship. *Computers & Composition*, 21, 403–425.

Kuhn, Virginia, & Ball, Cheryl E. (in revision). Embrace and ambivalence: The academy's love-hate relationship with the digital. *College Composition and Communication*.

Moeller, Ryan; Cargile Cook, Kelli; & Ball, Cheryl E. (accepted for collection). Political economy and sustaining the unstable: New faculty and research in English studies. In Danielle DeVoss, Heidi McKee, & Richard Selfe (Eds.) *Technological ecologies & sustainability*. [Collection under review.]

Ball, Cheryl E., & Arola, Kristin L. (2005). *ix tech comm: visual exercises for technical communication*. Boston: Bedford/St. Martin's Press.

Ball, Cheryl E., & Arola, Kristin L. (2004). *ix: visual exercises*. Boston: Bedford/St. Martin's Press.

Ball, Cheryl E. (2004). *Picturing texts instructor's guide*. New York: W.W. Norton.

Ball, Cheryl E. (2004). *Picturing texts website*. New York: W.W. Norton.
<<http://www.picturingtexts.com>>.

Ball, Cheryl E. (2008–09). Digital scholarship in the Humanities, Part 1: Authors' composition and revision processes of new media scholarship. New Faculty Initiative Grant, Illinois State University. \$3,500.

Ball, Cheryl E. (2007–08). Digital Media and Composition (DMAC) institute. Professional Development Travel Grant program of the Faculty Excellence Initiative Committee. Illinois State University. \$750.

Ball, Cheryl E., & Moeller, Ryan. (2006–07). *The Learning Suite: A collaborative, technology-rich environment to support writing/composition in a digital age*. \$86,000. USU Innovation Fund.

SERVICE

(2008–09). Chair. CCCC Committee for Computers in Composition & Communication (7Cs). [appointed]

(2007–present). Member. Task Force on Digital Scholarship for Tenure and Promotion. (Working group from C&W Conference.) [invited]

(2006–07). Chair. CCCC Writing Program Certificate of Excellence Selection Committee. [appointed]

(2006–08). Co-Chair. CCCC Committee for Computers in Composition & Communication (7Cs). [appointed]

(2005–08). Member. NCTE Committee on Technical & Scientific Communication. [appointed]

(2003–06). Member. CCCC Committee for Computers in Composition & Communication. [appointed]

JOHN BONNETT

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(905) 735-8316

Welland, ON

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Citizenship: Canadian/American

Education:

- Doctor of Philosophy, Department of History, University of Ottawa, 2002.
Thesis: "Communication, Complexity and Empire: The Systemic Thought of Harold Adams Innis." Supervised by: Chad Gaffield
- Master of Arts Degree, Department of History, University of Ottawa, 1992.
Research Paper: "Henry L. Stimson, *Mentalité*, and the Decision to Use the Atomic Bomb Against Japan." Supervised by: Brian Villa.
- Bachelor of Arts, Western Washington University, *Cum Laude*, 1989.

Professional Experience:

- Tier II Canada Research Chair in Digital Humanities, Department of History, Brock University, July 1, 2005 to present
- Research Officer, National Research Council of Canada, Institute for Information Technology, March 2002 to June 30, 2005
- Adjunct Professor, Department of History, University of New Brunswick, October 2002 to Present
- Visiting Researcher, National Research Council of Canada, Institute for Information Technology, January 1998 to December 2001

Grants, Scholarships, and Academic Honors:

- NCSA Visiting Researcher Fellowship, National Center for Supercomputing Applications, University of Illinois, Urbana-Champaign, June to August 2007
- SSHRC President's Grant – 2005 Amount: \$35,000. Purpose: Financial Support for *The Computer: The Once and Future Medium for the Social Sciences and the Humanities* Conference.
- Canada Foundation for Innovation Conference Grant – 2005
- Brock Humanities Research Institute – 2005
- Canada Foundation for Innovation Infrastructure Grant -- 2005
- Tier II Canada Research Chair – 2005.
- Social Science and Humanities Research Council Doctoral Fellowship – 1997-1998.

Publications (selected):

“Charting a New Aesthetics for History: 3D, Scenarios and the Future of the Historian’s Craft.” In *L’histoire sociale / Social History*. 40(79): 169-208.

“Mediating the Past in 3D, and how Hieroglyphs get in the way: The *3D Virtual Buildings Project*.” In *Mind Technologies: Humanities Computing and the Canadian Academic Community*. (Calgary: University of Calgary Press, 2005).

“Following in Rabelais’ Footsteps: Immersive History and the 3D Virtual Buildings Project.” In *History and Computing*. 13(2): 107-150. 2001 (Published 2004).

"Versando nuova linfa in una vecchia disciplina: Impiego del 3D per insegnare e rappresentare il passato." [English Title: "Pouring New Wine into an Old Discipline: Using 3D to Teach and Represent the Past."] in *Storic@mente*. 2004. On-line journal available at: http://www.storicamente.org/02_tecnostoria/strumenti/bonnett_ital.htm [December 22, 2004].

“New Technologies, New Formalisms for Historians: *The 3D Virtual Buildings Project*.” In *Literary and Linguistic Computing*. 19(3): 273-287. September 2004.

“The Oral Tradition in 3D: Harold Innis, Information Visualisation and the 3D Historical Cities Project.” In *Text Technology*. 12(1): 1-8. 2003.

“Following in Rabelais’ Footsteps: Immersive History and the 3D Virtual Buildings Project.” In *Journal of the Association for History and Computing*. 6(2). September 2003. Available on-line at: <http://mcel.pacificu.edu/jahc/jahcvi2/articles/bonnett/bonnett.html> [June 15, 2007]

“The Oral Tradition in 3D: Harold Innis, Information Visualisation and the 3D Historical Cities Project.” In *Computing in the Humanities Working Papers*. A.20. September 2003. Available on-line at: <http://www.chass.utoronto.ca/epc/chwp/titles.html> [April 30, 2005]

Bringing Students to a Virtual Past: Teaching Ottawa History with the *3D Historical Cities Project*." in *Construire une capitale -- Ottawa -- Making A Capital*. Eds. Jeff Keshen and Nicole Saint-Onge. (Ottawa: University of Ottawa Press, 2001): 483-502.

“Abductive Reasoning, A-Life and the Historian’s Craft: One Scenario for the Future of History and Computing.” At *Digital Arts and Humanities Network Website*. (Hosted by King’s College, London) Available on-line at: http://www.arts-humanities.net/blog/ian_anderson/370 [September 2007]

“High-Performance Computing: An Agenda for the Social Sciences and the Humanities in Canada.” **(Article commissioned by the Social Sciences and Humanities Research Council of Canada)** Available on-line at:

Digital Arts and Humanities Network Website. (Hosted by King's College, London)

http://www.arts-humanities.net/blog/ian_anderson/393

SSHRC Website: Social Sciences and Humanities Research Council.

http://www.sshrc.ca/web/about/publications/computing_final_e.pdf [January 2007]

Scholarly Activities and Service:

Conference Organizer: 2006 Annual Meeting of the Society for Digital Humanities. Congress of the Social Sciences and the Humanities. York University. Toronto, ON, May 29-31, 2006.

Conference Organizer Symposium: The Computer – The Once and Future Medium for the Social Sciences and the Humanities. Congress of the Social Sciences and the Humanities. York University. Toronto, ON, May 30, 2006.

Member, Jury, Interactive Media Section, *Digital Humanities Quarterly*, February 2006 to present

Member, Editorial Board, *Journal of Canadian Studies*, August 2005 to present

Chair, Canadian Committee on History and Computing, Canadian Historical Association

HUGH DENARD

Formal Education

- | | |
|---------|--|
| 1993-97 | Ph.D. in Drama - 'Modern Versions of Greek Tragedies from Ireland'
Supervisor: Leslie Read, Department of Drama, University of Exeter. British Academy Studentship. |
| 1992-93 | M.A. in Ancient Drama and Society, University of Exeter
Supervisor: John Wilkins, Department of Classics, Exeter. |
| 1988-92 | B.A. in Drama & Classical Civilizations, Trinity College Dublin
Supervisor: Steve Wilmer, Samuel Beckett Centre, TCD. |

Academic Posts

- | | |
|---------|---|
| 2005- | Lecturer, Centre for Computing the Humanities, King's College, London (KCL) |
| 2000-05 | Lecturer, School of Theatre Studies, Warwick |
| 1998-00 | Teaching & Research Fellow, School of Theatre Studies, Warwick |
| 1998-98 | Part-time Lecturer, School of English, Trinity College Dublin |
| 1994-97 | Part-time Lecturer, Department of Drama, Trinity College Dublin |

Major Roles (Current)

- Associate Director, King's Visualisation Lab, KCL
- Associate Director & Manager, Eduserv "THEATRON 3" Project
- Co-Director, Leverhulme "Roman Villa of Oplontis" Project
- Co-Director, AHRC "The Body and Mask in Ancient Theatre Space" Project
- Co-Director, AHRC "Making Space" Project
- Director & Manager, JISC 3D Visualisation in the Arts Network
- Editor & Joint Coordinator, *The London Charter*

- Programme Organiser, MA in Digital Culture and Technology, KCL

Selected Publications

- Editor-in-Chief, 2001-07; Editor (Resources), 2008-, *Didaskalia* (www.didaskalia.net): peer-reviewed e-journal, research and teaching resources dedicated to ancient drama in performance. Collaborations with King's College, London; American Philological Association; JISC-funded ARCHES Project. Three development grants.
- *Living Theatre: Roman Theatricalism and the Domestic Sphere* Co-author: Richard Beacham (Yale University Press: forthcoming)
- Curator, "The Centre for Computing in the Humanities, King's College London: A Second Life Exhibition."
- "Towards a Consensus in 3d Visualisation" *AHDS Newsletter* Spring/Summer 2007, pp.4-5.
- "Lost Theatre and Performance Traditions in Greece and Italy" *Cambridge Companion to Greek and Roman Theatre* Eds. J. Michael Walton and Marianne McDonald (Cambridge University Press, 2007), 139-160.
- "An Introduction to the London Charter" Co-authors: Richard Beacham and Franco Niccolucci, in Ioannides, M. *et al.* (eds), *The e-volution of Information Communication and Technology in Cultural Heritage* Refereed Proceedings of VAST Conference, Cyprus, November 2006. (Archaeolingua, 2006), pp. 263-269.
- *The London Charter for the Use of 3-dimensional Visualisation in the Research and Communication of Cultural Heritage*. www.londoncharter.org Draft 1: 5 March 2006. Draft 1.1: 14 June 2006.
- "Roman Theatre and Frescos: Intermedial Research Through Applied Digital Visualisation Technologies" Co-author: Richard Beacham, with Martin Blazeby in Hal Thwaites (ed.) *Virtual Reality at Work in the 21st Century: Impact on Society*. Proceedings of the 11th International Conference on Virtual Systems and MultiMedia (VSMM) 2005.
- "Transforming Online Learning Paradigms" *Interactions* Vol.7 No.2 (2003)
- "'At the foot of Pompey's Statue': Reconceiving Rome's *Theatrum Lapidium*" in Alan Bowman and Michael Brady Eds. *Images and Artefacts of the Ancient World* (Oxford University Press, 2005) 69-76.
- "Performing the Past: the Virtual Revolution in Performance History" in K. Schlesinger (ed.) *Performing Arts Resources* Vol.24 (NY: Theatre Library Association, 2004) 54-70.
- "The Art of Re-remembering: Some Greek Tragedies from Ireland" Proceedings of IX International Meeting on Ancient Greek Drama (Delphi: 2004) 153-167. Co-author: Steve Wilmer
- "The Pompey Project: Digital Research and Virtual Reconstruction of Rome's First Theatre" Co-authored with Richard Beacham. ACH/ALLC Proceeding *Journal of Computers and the Humanities* Vol.37 No.1 (2003) 129-140.
- Introduction and Appendix to Aeschylus *Complete Plays Volume 1* tran. Carl Mueller (Hanover NH: Smith and Kraus, 2002) 1-49; 283-300. Reviewed in *Performing Arts Journal* 75, Vol.25, No.3, Sept. 2003
- "Research Recreates Ancient Roman Virtual Reality with 21st-century 3-D Technology" co-authored with Richard Beacham for University of Warwick *Humanities Research Centre Bulletin* (June 2003)
- Preface to Aeschylus *Complete Plays Volume 2* tran. Carl Mueller (Hanover NH: Smith and Kraus, Nov. 2002) ix-xiii.
- "Virtuality and Performativity: Recreating Rome's Theatre of Pompey" *Performing Arts Journal* 70 (2002) 25-43. Article highlighted in the *Chronicle of Higher Education's* Daily Report in February 2001.
- "Virtual Archaeology: Reconceiving Rome's Theatre of Pompey" *British Academy Review* (July-December 2001) 22-23.

- Preface to Sophokles *The Complete Plays* tran. Carl Mueller (Hanover NH: Smith and Kraus, 2000) vii-viii.

Teaching

- Programme Organiser and Personal Tutor, MA in Digital Culture and Technology
- Module Organiser and Tutor, Digital Culture and Technology (MA Core Module)
- Module Organiser and Tutor, 3D Visualisation in the Arts, Humanities and Cultural Heritage
- Current MA and PhD supervision topics: Historical Visualisation; Greek and Roman Drama and its Reception.
- Early adopter / innovator in IT-augmented curriculum design, research- and resource-based learning, and theatre-historical teaching methods.

Selected Papers and Presentations 2005-8

- “Recent Developments in Humanities Visualisation” (Paper) and “Grand Challenges in Arts and Humanities Visualisation” (Workshop Chair) VizNET 2008: The 2nd Interdisciplinary Conference on Intersections of Visualization Practices and Techniques, Loughborough, May 2008.
- “Visualising the imagined spaces of Pompeian frescoes” Workshop on “Reconstructing Pompeian Interiors: Painting, Models and Architectural and Virtual Reality”, Stockholm, April 2008.
- “The London Charter” Open Digital Cultural Heritage Systems Conference, Rome, Feb. 2008.
- “Digital Humanities Island” Colloquium on Shared Virtual Environments, University of Pisa, Feb. 2008.
- “Parallel universes, shared worlds: visualisation in the arts and humanities” Long Room Hub, TCD, Feb. 2008.
- “THEATRON 3” JISC CETIS-Eduserv Event, London Knowledge Lab, Sept. 2007.
- Co-organizer, “Standards, Scientific Reliability and 3D Visualization” panel, X3D, Perugia, April 2007.
- “The London Charter” Digital Resources for the Humanities and Arts, Dartington, Sept. 2006.
- Facilitator, “Making 3D Visual Research Outcomes Transparent”, British Academy and Expert Seminar, Centre for Computing in the Humanities, 23-5 Feb. 2006.
- “Intermediality, Interdisciplinarity, Reliability: Reflections on a Visualisation-based Study of Pompeian Frescos” CHArt: Computers and the History of Art conference, British Academy, Nov. 2005.

PATRICK DUNAE

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 telephone: (250) 380-1633

Present position

Professor
 Department of History
 Malaspina University-College
 900 Fifth Street
 Nanaimo, British Columbia
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Adjunct Associate Professor
 Department of History

University of Victoria
3800 Finnerty Road
Victoria, British Columbia
V8W 3P4

Degree

Ph. D. History. University of Manchester, 1976.

Recent publications and presentations:

Nanaimo, 1891: An historical GIS of a harbour city (2007)

Published online at:

<http://tree.mala.bc.ca/nanaimo1891gis/>

“Reconstructing a harbour city in the Pacific Northwest with GIS: Nanaimo in the 1890s,” presented to the Social Science History Association, Chicago, Illinois, 16 November 2007

<http://web.mala.ca/dunae/hgis/index.htm>

“GIS and History,” presented to the international Pacific Region ESRI Users’ Conference, Victoria, B.C., 2 October 2007 [invited paper].

“*An historical HGIS in the Pacific Northwest: Directions from Victoria, B.C., 1871-1901*,” presented to the Social Science History Association, Portland, Oregon, 3 November 2005.

“*Visualizing Victorian Cities with HGIS [Historical Geographical Information Systems]*,” presented to the international Association for Computers and the Humanities conference, Victoria, British Columbia, 16 June 2005.

“*Virtual Victoria: Presenting the Past with New Technologies*,” (with John Lutz, University of Victoria), presented to a joint session of the Canadian Historical Association and the Canadian Association of Geographers, University of Western Ontario, London, Ontario, 1 June 2005.

Web sites

(2006) *viHistory.ca* Launched at Malaspina University-College in 2003 and re-developed with the Humanities Media and Computing Centre at the University of Victoria, this web site provides a searchable, digital archive of census data, directories, tax assessment rolls, and maps of Vancouver Island, c. 1861- 1911. The data set contains over 200,000 records and is used extensively by scholars, students and the general public.

<http://vihistory.ca>

(2005) *Virtual Victoria: View from the steeple, 1891*. This interactive web site demonstrates how archival material and electronic media can provide a compelling perspective on the past.

<http://cdhi.mala.bc.ca/steeple/>

STUART DUNN

EMPLOYMENT

- 2006 – present: Arts and Humanities e-Science Support Centre, King's College London:
 - Research Associate
- 2003 – 2006: AHRC ICT in Arts and Humanities Research Programme, University of Reading:
 - Programme Administrator (June 2005 – January 2006)
 - Research Assistant (November 2003 – June 2005)
- 2002 – 2003: Fenwick of Newcastle Ltd:
 - Various roles including analyst, training officer and section head
- 1999 – 2001
 - Course Tutor for 'The Art and Myth of Ancient Greece' and 'Minoans and Mycenaeans', University of Durham (1999 – 2001)
 - College Tutor, Trevelyan College, University of Durham (1999 – 2001)

EDUCATION

- 2002: Phd (Durham) in Aegean Bronze Age archaeology (Thesis: *The chronology of the Aegean Late Bronze Age with special reference to the 'Minoan' eruption of Thera*)
- 1998: BA (II, First Division Joint Honours) in Ancient History and Archaeology, University of Durham

RESEARCH AWARDS

2007:

- AHRC ICT Methods Network grant to convene 'Space and Time: methods in geospatial computing for mapping the past' (£4949.28).

PROFESSIONAL ACTIVITIES

2007:

- Chair, EVA conference programme committee (London)
- Member, Location and the Web programme committee (Beijing)
- Workpackage Programme Manager, 'Enabling e-Uptake of e-Infrastructure Services'.
- Co-convenor, 'E-Science for the Arts and Humanities: an early adopters' forum'. Workshop held at NCSA, Urbana-Champaign, Illinois, June 2007.

2006:

- Evaluator, JISC Digitization Programme
- Visiting Research Fellow, School of Human and Environmental Sciences (Archaeology Department), University of Reading, UK (until 2009).
- UK e-Science All Hands Conference Programme Committee
- Member, Pleiades Project Technical Oversight Board, Ancient World Mapping Center, University of North Carolina Chapel Hill (invited member; ongoing).

2005 - 2006:

- DigitalClassicist project advisory group (invited member; ongoing)
- JISC Geospatial Data Workgroup (invited member; ongoing)

2004-present:

- Silchester Roman Town: A Virtual Research Environment for Archaeology, University of Reading (archaeological consultant and invited steering cttee member; ongoing)

SELECTED CONFERENCE PRESENTATIONS

2007:

- ‘The Anthropology of knowledge: from basic to complex communities in the Arts and Humanities’. Digital Humanities 2007, Urbana-Champaign, Illinois
- ‘Space as an artefact: understanding past perceptions and uses of space with and without computers’. Digital Classicist Seminar Series, KCL, August 2007.
- ‘A new way of working: the UK’s Arts and Humanities e-Science Initiative’. Acume2 project seminar, Warsaw, Poland.
- ‘A point in space, a moment in time: towards an integrated view of the Santorini eruption’. Minoan Chronology Workshop, Sonderborg, Denmark.

SELECTED PUBLICATIONS

2008:

- (with T. Blanke): Next Steps for E-Science, the Textual Humanities and VREs
A Report on Text and Grid: Research Questions for the Humanities, Sciences and Industry, UK e-Science All Hands Meeting 2007. D-Lib Magazine Volume 14 Number 1/2 (January/February 2008): <http://www.dlib.org/dlib/january08/dunn/01dunn.html>

2007:

- (with Alex Voss, Matthew Mascord, Mercedes Arguello Castelleiro, Marzieh Asgari-Targhi, Rob Procter, Michael Fraser, Marina Jirotko, Peter Halfpenny, David Fergusson, Malcolm Atkinson, Tobias Blanke, Lorna Hughes and Sheila Anderson): e-Infrastructure development and community engagement. In *Proceedings of e-Social Science 2007*.
- Trustworthy Characters: common issues for archaeology, classical studies and VREs. Proceedings of First International Workshop on VREs, Edinburgh, March 2007
- Review: Georeferencing: The Geographic Associations of Information. *Literary and Linguistic Computing* Vol. 22 (2), June 2007: 243-245.
- (with A. Aschenbrenner, T. Blanke, M. Kerzel, A. Rapp and A. Zielinski): Von e-Science zu e-Humanities – Digital vernetzte Wissenschaft als neuer Arbeits – und Kreativbereich für Kunst und Kultur. *Bibliothek: Forschung und Praxis* 31 (1) 2007: 11-21

2006:

- (with Lorna Hughes and Nicolas Gold): CHIMERA: A serice-oriented approach to archaeological research. In *Proceedings of Computational Applications and Quantitative Methods in Archaeology, Berlin 2007*.
- (with Tobias Blanke): The UK Arts and Humanities e-Science Initiative. *Proceedings of IEEE conference, Amsterdam 2007*.

2005:

- (with Lorna Hughes and Sheila Anderson): Virtual Research Environments in the Arts and Humanities, *Proceedings of the e-Science All Hands Meeting 2005*,
- From Juktas to Thera: people and their environment in Middle and Late Minoan Crete. In A. Dakouri-Hild and S. Sherratt (eds.) *Autochthon: Papers presented to Oliver Dickinson on the occasion of his retirement*. BAR International Series, Oxford

2004:

- GIS and databases in Aegean prehistory: current practice, future strategy *Archaeological Computing Newsletter*, 61, December 2004

JASON GILLILAND

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The University of Western Ontario, London, ON Canada N6A 5C2
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Academic Positions

2007-present Associate Professor, (tenured), Geography, University of Western Ontario
2006-present Director, Urban Development Program, University of Western Ontario
2006-present Associate Scientist, Children's Health Research Institute
2003-2007 Assistant Professor (tenure track), Geography, University of Western Ontario
2001-2003 Postdoctoral Fellow (SSHRC), Geography & Planning, U of Toronto

Education

2001 PhD, Geography, McGill University, Montreal, Canada
1996 M.Architecture, Architecture, McGill University, Montreal, Canada
1994 M.A., Geography, McGill University, Montreal, Canada
1991 B.A.(Hon), Geography, McMaster University, Hamilton, Canada

Current Research Grants

Start-End Date	Position	Granting Agency	Grant Title	Total Amount
2007-08	principal investigator	CHRI	Geographical analysis of paediatric trauma in Southwestern Ontario	\$7,500
2007	principal investigator	Heart & Stroke Fdn	Development grant for project on Obesity & Built Environment	\$3,200
2007-08	principal investigator	LHSC – pediatrics	Geographic analyses of paediatric trauma	\$5,000
2007-08	principal investigator	LHSC – trauma	Geographic studies of paediatric trauma incidences in SW Ontario	\$5,000
2006-09	principal investigator	SSHRC	Social mobility in Canadian cities, 1880-1914	\$178,000
2006-09	co-investigator (p.i. J. Baxter)	SSHRC	Environmental inequity in Canada: patterns and experiences	\$112,100
2006-09	collaborator (p.i. J. Parr)	SSHRC	Lostscapes: New Media Reconstructions of Disrupted Environments	\$120,000
2005-08	principal investigator	CIHR	Environmental influences on obesity-related behaviours in youth	\$169,141

Selected Publications

Larsen, K., and J. Gilliland. 2008. Mapping the evolution of 'food deserts' in a Canadian city: Supermarket accessibility in London, Ontario, 1961-2005. *International Journal of Health Geographics*

- Tucker, P., and J. Gilliland. 2007. The Effect of Season and Weather on Physical Activity: A Systematic Review. *Public Health* 121(12): 909-922.
- Tucker, P., Gilliland, J., Irwin, J. 2007. Splashpads, swings, and shade: parents' preferences for neighbourhood parks. *Canadian Journal of Public Health* 98(3): 198-202.
- Gilliland, J. and M. Novak. 2006. Positioning the past with the present: on integrating fire insurance plans and GIS for urban environmental history. *Environmental History* 11(1): 136-139.
- Gilliland, J. and P. Gauthier. 2006. The study of urban form in Canada. *Urban Morphology* 10(1): 51-66.
- Gauthier, P. and J. Gilliland. 2006. Mapping urban morphology: a classification scheme for interpreting contributions to the study of urban form. *Urban Morphology* 10(1): 41-50.
- Gilliland, J., Holmes, M., Irwin, J. and T. Tucker. 2006. Environmental equity is child's play: mapping recreational opportunities in urban neighbourhoods. *Vulnerable Children and Youth Studies* 1(2): 1-13.
- Wilson, D., Gilliland, J., Ross, N., Derevensky, J. and R. Gupta. 2006. Video Lottery Terminal Access and Gambling Among High School Students in Montréal *Canadian Journal of Public Health* 97(3): 202-206.
- Gilliland, J. and N. Ross. 2005. Opportunities for video lottery gambling: an environmental analysis. *Canadian Journal of Public Health* 96(1): 55-59.
- Gilliland, J. 2004. Muddy shore to modern port: the redimensioning of Montreal's waterfront time-space. *Canadian Geographer* 48(4): 448-472.
- Gilliland, J. 2003. It's About Time: Exploring the Fourth Dimension in the Morphology of Urban Disasters. *Urban Morphology* 7(2): 110-112.
- Gilliland, J. and S. Olson. 2003. Montréal, l'avenir du passé. *GÉOinfo*, (Jan-Feb): 5-7.
- Gilliland, J. 2002. The Creative Destruction of Montreal: Street Widenings and Urban (Re)Development in the Nineteenth Century. *Urban History Review / Revue d'histoire urbaine* 31(1): 37-51.
- Gilliland, J. 2002. Society and Space in the Industrial City, *Urban History Review / Revue d'histoire urbaine*, 31(1): 3-4.
- Gilliland, J. 2000. Urban morphology in the 'Steel City'. *Urban Morphology*, 4(2): 102-3.
- Gilliland, J. 2000. Visions and Revisions of House and Home: A Half-Century of Change in Montreal's 'Cité-jardin'. In H. Nicol and G. Halseth (eds), *(Re)Development at the Urban Edges*. University of Waterloo, pp.139-74.
- Gilliland, J. 1999. Redimensioning the Urban Vascular System: Street Widening Operations in Montreal, 1850-1918. In G. Corona and G. L. Maffei (eds), *Transformations of Urban Form: From Interpretations to Methodologies in Practice*. (Firenze: Alinea Editrice) pp.FK2.7-10.
- Sendbeuhler, M. and J. Gilliland, 1998. "...to produce the highest type of manhood and womanhood": The Ontario Housing Act, 1919, and a New Suburban Ideal. *Urban History Review / Revue d'histoire urbaine* 26(2): 42-55.

Gilliland, J. and S. Olson, 1998. Claims on Housing Space in Nineteenth-Century Montreal. *Urban History Review / Revue d'histoire urbaine* 26(2):3-16.

Gilliland, J. 1998. Modeling Residential Mobility in Montreal, 1860-1900. *Historical Methods* 31(1): 27-42.

GAIL E. HAWISHER

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(217) 333-3251
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603 West Church Street University of
Savoy, Illinois 61874
Telephone (217) 352-8031

hawisher@uiuc.edu

EDUCATION

University of Illinois, Urbana-Champaign: Ph.D. in Composition Studies. January 1986.

The Ohio State University: Graduate work in Rhetoric, Literature, and Linguistics. 1977-1982.

Augusta College: B.A. in English. June 1970.

EXPERIENCE (selected)

Professor of English and Director of the Center for Writing Studies. University of Illinois, Urbana, Illinois. July 1990-present. (promoted from Associate Professor in 1996)

Assistant Professor of English: Purdue University, West Lafayette, Indiana. 1989-1990.

Assistant Professor of English: Illinois State University, Normal, Illinois. 1986-1989.

PUBLICATIONS (selected)

Books

Gaming Lives in the 21st Century: Literate Connections. (edited with Cynthia L. Selfe). New York: Palgrave Macmillan, 2007. (273 pages).

Literate Lives in the Information Age: Narratives of Literacy from the United States. (coauthor with Cynthia L. Selfe). Mahwah, NJ: Erlbaum, 2004. (259 pages).

Global Literacies and the World Wide Web. Ed. Gail E. Hawisher and Cynthia L. Selfe. New York: Routledge, 2000. (299 pages)

Passions, Pedagogies, and 21st Century Technologies. Ed. Gail E. Hawisher and Cynthia L. Selfe. Logan: Utah State University Press, 1999. (452 pages)

Literacy, Technology, and Society: Confronting the Issues. (edited with Cynthia Selfe). Upper Saddle River, NJ: Prentice Hall, 1997. (606 pages). (College Reader)

Computers and the Teaching of Writing in American Higher Education, 1979-1994: A History. (co-authored with Paul LeBlanc, Charles Moran, and Cynthia Selfe). Norwood, NJ: Ablex Publishing, 1996. (363 pages).

Re-Imagining Computers and Composition: Teaching and Research in the Virtual Age. (edited with Paul LeBlanc) Portsmouth, NH: Boynton/Cook, 1992. (222 pages)

Evolving Perspectives on Computers and Composition Studies: Questions for the 1990s. (edited with Cynthia L. Selfe) Urbana, IL: NCTE, 1991. (383 pages).

On Literacy and Its Teaching: Issues in English Education. (edited with Anna O. Söter) Albany, NY: SUNY Press, 1990. (259 pages).

Critical Perspectives on Computers and Composition Instruction. (edited with Cynthia Selfe) New York: Columbia University's Teachers College Press, 1989. (231 pages)

Articles

- “Globalization and Agency: Designing and Redesigning the Literacies of Cyberspace.” (with Cynthia Selfe, Yi-Huey Guo, and Lu Liu) *College English*. 68 (July 2006): 619-636.
- “Becoming Literate in the Information Age: Cultural Ecologies and the Literacies of Technology.” (with Cynthia Selfe, Brittney Moraski, Melissa Pearson). *College Composition and Communication*. 55.4 (June 2004): 642-92.
- “Collaborative Configurations: Researching the Literacies of Technology.” (with Cynthia Selfe). *Kairos*. 7.3 (Fall 2002):
<http://english.ttu.edu/kairos/7.3/binder2.html?coverweb/hawisher/index.htm>.
- “A Historical Look at Electronic Literacy: Implications for the Education of Technical Communicators.” (with Cynthia Selfe). *Journal of Business and Technical Communication*. 16.3 (July 2002): 231-276.
- “Accessing the Virtual Worlds of Cyberspace.” *Journal of Electronic Publishing*. 6.1 (2000). University of Michigan. <http://www.press.umich.edu/jep/06-01/hawisher.html>.
- “Constructing Identities through Online Images.” *JAAL*. (March, 2000).
http://www.readingonline.org/electronic/jaal/3-00_Column.html
- Rpt. in *Literacy in the Information Age: Inquiries into Meaning Making with New Technologies*. Bertram C. Bruce, ed. Newark, Delaware: International Reading Association, 2003. 128-140.
- “Reflections on Research in Computers and Composition Studies at the Century’s End.” (with Cynthia Selfe). *The Australian Journal of Language and Literacy*, 19.4 (1996): 290-304.
 Rpt. as lead chapter in *Page to Screen: Taking Literacy Into the Electronic Era*. Ilana Snyder, ed. New South Wales, Australia: Allen and Unwin, 1997. 3-19.
 Rpt. in *Teaching Literacy Using Information Technology*. Joeli Hancock, ed. Victoria: Australian Literacy Association, 1999. 31-47.
- “Writing Across the Curriculum Encounters Asynchronous Learning Networks or WAC Meets Up with ALN.” (with Michael Pemberton) *Journal of Asynchronous Learning Networks*. 1.1 (1997). http://www.aln.org/alnweb/journal/jaln_issue1.htm#hawisher
 Rpt. in *Communication Across the Curriculum*. Donna Reiss, Richard Selfe, and Art Young, eds. Urbana, IL: National Council of Teachers of English, 1998. 17-39.
 Rpt. in *A Guide to Online course Development: The Theory and Practice of Online*

GRANTS, FELLOWSHIPS, AWARDS (selected)

- Outstanding Technology Innovator Award presented by the Conference on College Composition and Communication, May 2000.
- Distinguished Book Award for Passions, Pedagogies, and 21st Century Technologies (with Cynthia Selfe) presented at the 2000 Computers and Writing Conference. Texas Women’s University. Fort Worth, Texas.
- “Technological Literacy in America: Tracing the Paths of the Technology-Linkage.” (with Cynthia Selfe). National Council of Teachers of English Research Foundation Grant. Urbana, IL. 2000. \$12,400.00. (funded)
- “Technological Literacy in America, 1978-2000: A Project to Improve Technical Communication Education in the New Millennium.” (with Cynthia Selfe). Special Opportunities Grant, Society for Technical Communication. 2000. \$10,000.00. (funded)

GERALDINE HENG
 Director, Medieval Studies
 University of Texas at Austin

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Tel. (512) 472-5472
e-mail: heng@mail.utexas.edu
Fax: (512) 472-5472 (home)

EDUCATION

Cornell University	PhD in English, 1990
	MA in English, 1986
National University of Singapore	MA in English, 1980
University of Singapore	BA (Honors, English and Philosophy), 1979

PUBLICATIONS (selected publications only)

- Book: Empire of Magic: Medieval Romance and the Politics of Cultural Fantasy. NY: Columbia University Press, 2003. 521 + xii pp. (Finalist, First Book Award, Modern Language Association of America, 2004; 2004 Best Book Award, SCMLA)
- Edited anthology: Medieval Race. Medieval Academy of America MART critical scholarship series Vol.3, University of Toronto Press, 2008.
- “The Race Template.” Cloning Cultures. Ed. Philomena Essed. Duke University Press, forthcoming, 2008.
- “Jews, Saracens, “Black men,” Tartars: England in a World of Racial Difference, 13th-15th Centuries.” A Companion to Medieval English Literature, c.1350-c.1500. Ed. Peter Brown. Blackwell Companions to Literature and Culture. Blackwell, 2007. 247-269.
- “An Experiment in Collaborative Humanities: ‘Global Interconnections: Imagining the World 500-1500.’” ADFL Bulletin, Modern Language Association of America, 38:3, Dec 2007.
- “Pleasure, Resistance, and a Feminist Aesthetics of Reading.” Cambridge Companion to Feminist Literary Theory. Ed. Ellen Rooney. Cambridge UP, 2006. 53-72.
- “Global Interconnections: Imagining the World 500-1500.” Medieval Academy Newsletter, September 2004.
- “Race Returns West to Medieval Mindset.” The Times Higher Education Supplement. Dec 20, 2002.
- “The Romance of England: Richard Coer de Lyon, Saracens, Jews, and the Politics of Race & Nation.” The Postcolonial Middle Ages. Ed. Jeffrey Cohen. The New Middle Ages Series. NY: St Martins, 2000. 135-171.

Selected presentations and Workshops:

- Lecture and workshop: “The Global Middle Ages Project and the Mappamundi Digital Initiative.” University of California Humanities Research Institute, Irvine, California, June 5, 2007.
- Co-organizer, first planning workshop of the Global Middle Ages Project (G-MAP) and the Mappamundi online digital initiative, University of Minnesota, November 8-11, 2007.
- Organizer/chair (by invitation), “Mappamundi: A Global Middle Ages.” International Congress of the New Chaucer Society, July 2006.
- “An Experiment in Collaborative Humanities: ‘Global Interconnections: Imagining the World 500-1500.’” Presentation and Workshop on the Global Middle Ages Project and the Mappamundi Digital Project, Humanities Research Institute, University of California at Irvine, June 6, 2007.
- Invited Lecture: “‘Global Interconnections’ and the Mappa Mundi Project.” Cornell Club of New York, 2008.

“An Experiment in Collaborative Humanities: ‘Global Interconnections: Imagining the World 500-1500.’” Symposium on New Directions in the Humanities. Columbia University, February 22-23, 2007.

SERVICE

Professional Service: National

Founder and Co-Director, The Global Middle Ages Project (G-MAP) and the Mappamundi Digital Online Initiative: multi-campus, interdisciplinary projects in the Humanities (in collaboration with several institutional partners), 2007-

Executive Committee, Comparative Medieval Literature Division, Modern Language Association (MLA), 2008-12

Chair, Executive Committee, Middle English Division, Modern Language Association (MLA), 2003-4

Secretary, Executive Committee, Middle English Division, Modern Language Association (MLA), 2002-3

Executive Committee, Middle English Division, Modern Language Association (MLA), 2000-2005

Steering committee on international feminism, National Women's Studies Association, 1999

Elected Delegate, Delegate Assembly, Modern Language Association (MLA), 1993-1995

Reader, PMLA, Speculum, Journal of Medieval & Early Modern Studies, Journal of English & Germanic Philology, Studies in the Age of Chaucer, Feminist Studies, differences, Texas Studies in Language & Literature, Stanford Humanities Center, university presses (e.g. Harvard, Duke, Indiana, Florida, Brepols, Palgrave, Macmillan)

Editorial Advisor, Cursor Mundi: Viator Studies of the Medieval and Early Modern World, UCLA Center for Medieval and Renaissance Studies

College & University Service

Director, Medieval Studies Program (development of new interdisciplinary, collaborative graduate seminars under the rubric, “The Global Middle Ages” and “Medieval Cultural Studies;” the graduate Papers-in-Progress series; the Distinguished Visiting Lecturers series; interdisciplinary graduate symposia and professionalization workshops; lectures, presentations and public events at Explore UT, annual university open house; public outreach and community directives), 2002-5

Chair, Graduate Studies Committee, and Advisor, Medieval Studies Program, 2002-5

Associate Director and Co-founder, The Humanities Institute (conceptualized and initiated the Humanities Institute: the multi-college, interdisciplinary Humanities Seminar, and the Distinguished Lecturers in the Humanities Series), College of Liberal Arts, 2001-2

Virginia Kuhn, PhD

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Employment:

2007- present University of Southern California (USC), Associate Director

Director of Honors in Multimedia Scholarship Program, Institute for Multimedia Literacy (IML)

Research Assistant Professor, School of Cinematic Arts, USC

2006-7 Project Specialist, IML, USC

2005-6 Postdoctoral Research Associate, IML, USC.

Dissertation: *Ways of Composing: Visual Literacy in the Digital Age*. Director: Alice Gillam

PhD: English, Rhetoric & Composition University of Wisconsin, Milwaukee August 2005

MA: English, Rhetoric & Composition UWM 1999

BA: Art History and Criticism, UWM, 1984. Liberal Arts Curriculum Arizona State University, Tempe Arizona, 1979 - 82.

Publications:

- "From Gallery to Webtext: A Multimodal Anthology." Kairos, Spring 08.
- "Representing Lives: Whose Pictures are Worth 1000 Words? Image Events: From Theory to Action. Forthcoming edited anthology.
- "Cyber-Interface: The Foreign Techno-Human Interaction," The Structure of Cyberinfrastructure; Networked Knowledge Technologies and the Humanities and Interpretative Social Sciences. Forthcoming edited anthology.
- "TK3: A Tool to (Re)Compose," Academic Commons, December, 2005.
- "Picturing Work: Visual Projects in the Writing Classroom," Kairos 9.2, Spring 2005.
- "The Fruits of Our Labor," Conference Review of the 2004 CCCC.
- "Review: Virtual Education, Real Educators." Kairos 8.2, Winter, 2004.
- "The Rules of the Game," Book Review of Cybertext: Yearbook 2000," ebr, Sept. 2002.

Invited Speaking Engagements:

- HPC Horizons Inaugural Conference, March 13, 2008.
- USC's Center for Excellence in Teaching, November 14, 2007.
- UCLA Digital Humanities Center, November 7, 2007.
- The Academy's Love-Hate Affair: Resistance to Digital Scholarship, City University of New York's Graduate Program. October 2006.
- New Digital Tools: Sophie. Faculty training & Course lecture. Conceptual Studies in Media Arts Production and Cultures & Communities, University of Wisconsin, Milwaukee. October 2006.
- The Digital Portfolio Project: Cyberinfrastructure Institute, San Diego Supercomputing Center, July 2006.
- Transformation Through Use: The Pedagogy of Digital Writing Institute of Multimedia Literacy, University of Southern California, September 2005.
- Theory/Practice Colloquia: Conceptual Studies in Media Arts Production, Department of Film, University of Wisconsin, Milwaukee, September, 2005.

Academic Presentations:

- Designing Our Web 3.0 Lives: The Virtual is the Real. Society for Cinema and Media Studies Conference, 2008.
- New Media Scholarship Stakeholders: Departmental, Authorial and Editorial Issues. Computers & Writing Conference, 2008.
- You and YouTube: The Pedagogy of Production, CCCC 2008.
- "Is the Personal Still the Political? Visual Identity in the Multicultural Classroom." International Visual Literacy Association Conference. 2006.
- "From Panel to Gallery: Twelve Exhibits: Digital Illumination." CCC 2006
- "Reluctant Collaborators: The Challenges of the Student-Centered Classroom. AILA July, 2005
- "Multiculturalism & 21st Century Tool Kits" Computers & Writing, 2005.
- "Tools of Design" CCCC, 2005.
- "Virtual Selves: The Ebb & Flow of Online Identity," Computers and Writing Conference, 2004. "New Vistas for Rhetorical Inquiry: From the Ancients to the Internet," Conference of the Rhetoric Society of America, 2004.
- "You're So Paranoid I Bet You Think This Panel's About You: Rooting out Paranoia in the Profession," CCCC 2004.
- "How Do We Teach the Teachers?" New Teacher Preparation Forum, Computers and Writing Conference, 2003.
- "Performing Stereotypes." Midwest Conference of Language, Literature and Media.2003.
- "Reworking Identities in Writing Program Administration: Working Within the Gaps of Administrator, Faculty & Student." Watson Conference on Rhetoric and Composition 2002.

"The Politics of Grammarcheck." Computers & Writing Conference, 2002.
 "Enhanced Teaching Through Electronic Listening: Reflections on the Digital Composition Classroom," Center for Professional Development Symposium, University of Wisconsin, Milwaukee. 2001.
 "Using Literature in the Writing Class," Convention of the NCTE. 2000.
 "Teaching With Technology: Programs, Pitfalls, Potential," English Department Teacher Orientation, UWM 2001.
 "Face to Face and E-space: The Dynamics of the Computer Mediated Classroom," Conference on College Composition and Communication, 2000.
 "Online Dramatic Interchange" Those Who Can Teach. Sixth Annual Conference on First Year Composition, 1999.

Grants & Awards:

Data Allocation on Tera-Grid for the Digital Portfolio Project. San Diego Supercomputing Center. 2007-08.
 Recipient of the UWM Chancellor's Scholars' Award for Digital Scholarship. 2004-05
 Writing Program Administration Team: Preparing Future Faculty competitive grant, UWM, 2001-02.
 "The Digital Composition Classroom," Preparing Future Faculty competitive grant, University Of Wisconsin, Milwaukee, 2000-2001.
 Fellowship, Illinois State University. Fall 1999 term.

SUSAN J. NOAKES

Department of French and Italian 260 Folwell Hall University of Minnesota Minneapolis, MN 55455 (612) 624-0076	Center for Medieval Studies 301 Nolte Center University of Minnesota Minneapolis, MN 55455 (612) 625-3034	436 Ashland Avenue St. Paul MN 55102 (651) 229-0295
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EDUCATION (selected):

University of Chicago, A.B. with honors, 1967
 Cornell University, Comparative Literature, 1969
 Yale University, Comparative Literature, M. Phil., 1972, Ph.D., 1975

ACADEMIC APPOINTMENTS:

Yale University: Acting Instructor, 1973
 University of Chicago: Asst. Prof. of Comparative Literature, Romance Languages, and General Studies in the Humanities, 1974-81; Associated Faculty Member, Graduate Library School, 1975-81; Instructor, "Basic Program" (Liberal Arts for Adults), 1980-81
 University of Kansas: Asst. Prof. of French and Italian, 1981-83; Assoc. Prof. of French and Italian, 1983-88; Director, Women's Studies Program, 1986-88
 University of Minnesota: Prof. of French and Italian, 1988-; Interim Director, Center for Advanced Feminist Studies, 1991; Associate Dean for Faculty, College of Liberal Arts, 1991-94; Director, Center for Medieval Studies, 2002-
 University of North Carolina, Chapel Hill: Visiting Professor of Women's Studies, Fall, 1995, 1996

PROFESSIONAL SERVICE:

Editorial Positions:

Medieval Encounters: Jewish, Christian and Muslim Culture in Confluence and Dialogue, co-editor, 2005-2008, lead co-editor 2005.
Dante Studies, Journal of the Dante Society of America (Associate Editor) 1993-
Speculum, Journal of the Medieval Academy of America,

Book Review Editor, Italian studies, 2005-2006

Gradiva, 1980-85; International Courtly Literature Monograph Series, 1978

Signs (Associate Editor), 1990-91

Consultant Reader

Presses

Univ. of Chicago Press; Summa Publications; Univ. of Pennsylvania Press;
Cornell Univ. Press; Cambridge Univ. Press; Univ. of Texas Press; Stanford
Univ. Press; Duke Univ. Press; Univ. of Minnesota Press.

Journals

Studies in Romanticism; Tulsa Studies in Women's Literature; Philological
Quarterly; Speculum; PMLA; International Journal of the Classical
Tradition; Modern Language Quarterly; Journal of Medieval and Early Modern
Studies

International, National Offices and Committees:

International Dante Seminar: Board of Directors, 1994-2003; Secretary, 1997-
2003.

Modern Language Assoc.: Advisory Committee on the MLA International
Bibliography, 1992-95 (Chair, 1993-95); Executive Committee, Division on Medieval and
Renaissance Italian Literature, 1993-98; Executive Council, 1994-98; Committee on Academic
Freedom, Professional Rights, and Professional Responsibilities, 2000-2003 (Chair, 2002-03)

Midwest Modern Lang. Assoc.: President, 1995.

Dante Society of America: Council, 1990-93; Nominating Committee (Chair), 1994-
96.

Council of Colleges of Arts and Sciences: Committee on the National Agenda,
1993.

National Grant Review:

National Endowment for the Humanities: Romance Languages Panel, Translation
Division, 1982, 1984; Fellowships Division, 1994, 1995, 1996 (declined), 1997.

OTHER PROFESSIONAL ACTIVITIES:

University of Minnesota: Center for Medieval Studies, Organizer of Conference,
"The Cultures of Papal Avignon," 2002.

North Central Association of Schools and Colleges: Consultant-Evaluator on
Accreditation Review Teams, 1994-96; 1997-2001; 2001-2005.

Invited Lectures and Conference Papers: about 60 in all parts of North America,
Italy, and France.

PUBLICATIONS (selected):

The Comparative Perspective on Literature: Essays in Theory and Practice (in collaboration with Clayton
Koelb). Ithaca and London: Cornell University Press, 1988. viii + 378 pp. Far Eastern edition, Taipei:
Bookman Books, 1988.

Timely Reading: Between Exegesis and Interpretation. Ithaca and London: Cornell University Press,
1988. xv + 249 pp.

Tommaso Schifaldo, *Libellus de indagacionibus grammaticis*, in collaboration with Robert Kaster),
Humanistica Lovaniensia, Vol. XXXII (1983), pp. 107-156.

"Dante e lo sviluppo delle istituzioni bancarie a Firenze: 'i subiti guadagni'" in Michelangelo Picone,
ed., *Dante: Da Firenze all'aldilà*, Atti del terzo Seminario Dantesco Internazionale, Firenze, 2000,
Firenze: Franco Cesati, 2001, pp. 249-261.

“Virility, Nobility, and Banking: The Crossing of Discourses in Dante’s *Tenzzone with Forese*,” in Teodolinda Barolini and H. Wayne Storey, eds., *Dante 2000: Themes and Problems*, New York: Fordham Univ. Press, 2004, pp. 241-258.

“Pétrarque polémiste anti-commercial?: ses portraits d’Avignon et de Venise,” Actes du colloque international, janvier 2004, Musée Pétrarque et Université d’Avignon et al., ed. Eve DuPerray, Paris: Beauchesne, 51-60.

“Medieval Texts and National Identities: Dante in Red, White, Green—Then Black,” *M/MLA Journal* 40:1 (Spring 2007), 11-24.

Reviews in *Italica*, *Studies in Romanticism*, *Gradiva*, *Journal of Religion*, *Speculum*, *American Journal of Semiotics*, *New Vico Studies*, *Journal of Medieval Latin*.

In preparation

Dante’s Divine Economies: Lineage, Wealth, and Prophecy in the “Paradiso.”

Book ms.

Petrarch’s Babylon: Cultural Intercourse in Papal Avignon, Book ms. of essays collected and edited by S.N., with introduction by S.N.

WILLIAM G. THOMAS III

University of Nebraska-Lincoln
615 Oldfather Hall
Department of History
Lincoln, NE 68588
wgt@unl.edu

Employment

University of Nebraska-Lincoln
John and Catherine Angle Chair in the Humanities and Professor of History
University of Virginia
Director, Virginia Center for Digital History, 1998-2005
Associate Professor, Corcoran Department of History, 2004-2005
Assistant Professor, Corcoran Department of History, 2001-2004
Research Assistant Professor, 1997-2001
Project Manager, Institute for Advanced Technology in the Humanities, 1996-1997

Education

Ph.D.--University of Virginia, History, 1995
M.A.--University of Virginia, History, 1991
B.A.--Trinity College (Connecticut), History, 1986 with honors in History

Selected Publications

"William Jennings Bryan, the Railroads, and the Politics of 'Workingmen'," *Nebraska Law Review* Vol. 86 No. 1 (2007): 161-179.
"Black and on the Border," co-author with Edward L. Ayers and Anne Sarah Rubin, in Gabor Boritt, ed., *The African American Soldier in the Civil War* (Oxford: Oxford University Press, 2007)
"The Countryside Transformed: The Eastern Shore of Virginia, the Pennsylvania Railroad, and the Making of a Modern Landscape," with Brooks Barnes and Tom Szuba, *Southern*

Spaces. July, 2007. < <http://www.southernspaces.org/contents/2007/thomas/1a.htm>>
"Nothing Ought to Astonish Us: Confederate Civilians in the 1864 Shenandoah Valley Campaign," in Gary Gallagher ed. *The Shenandoah Valley Campaign of 1864* (Chapel Hill: University of North Carolina Press, 2006)
"The Differences Slavery Made: A Close Analysis of Two American Communities," co-author with Edward L. Ayers, *American Historical Review*, December 2003.
The Civil War on the Web: A Guide to the Best Sites, co-author with Alice E. Carter, *Scholarly Resources*, 2001.
Lawyering for the Railroad: Business, Law, and Power in the New South, Louisiana State University Press, 1999.

Honors

OAH Distinguished Lecturer, 2007-present
Mead Honored Faculty, University of Virginia, 2004-2005
The James Harvey Robinson Prize, 2003, American Historical Association, with Edward L. Ayers and Anne S. Rubin, for *Valley of the Shadow: Two Communities in the American Civil War*
The Lincoln Prize, 2001, Gettysburg College, Lincoln and Soldiers Institute, with Edward L. Ayers and Anne S. Rubin, for *Valley of the Shadow: Two Communities in the American Civil War*.
Emmy Nominee, Washington, D. C. Chapter, National Television National Academy of Television Arts and Sciences, 2000, with George H. Gilliam, producer, for *The Ground Beneath Our Feet*, "Massive Resistance."

Board Service

Board of Editors, University of Nebraska Press, 2007-present
Board of Editors, Southern Spaces, Emory University, 2003-present
Institutional Review Board, University of Nebraska, 2006-present
Research Advisory Board, University of Nebraska, 2006-present
Board of Directors, Center for Liberal Arts, University of Virginia, 1999-2005

Recent Lectures and Conference Papers

"Fifty Years Later: The South, Virginia, and the Civil Rights Struggle," Alexandria Library Company Lecture in Southern History, March 2007.
"Railroads, Civil War, and the Making of Modern America," American Historical Association, January 2007.
"Time, Space, and History" with Edward L. Ayers, EDUCAUSE, Dallas, October 2006.

Electronic Archives and Publications (Director or Co-Director)

"Railroads and the Making of Modern America"
<http://railroads.unl.edu>
"Digital History"
<http://digitalhistory.unl.edu>
"The Valley of the Shadow: Two Communities in the American Civil War"
<http://valley.vcdh.virginia.edu>
"The Eastern Shore of Virginia and the Railroad, 1870-1930"
<http://www.vcdh.virginia.edu/eshore>
"Television News in the Civil Rights Era, 1950-1970"
<http://www.vcdh.virginia.edu/civilrightstv>
"The Geography of Slavery in Virginia"
<http://www.vcdh.virginia.edu/gos>
"Race and Place: An African American Community in the Jim Crow South, 1870-1920"

<http://www.vcdh.virginia.edu/afam/raceandplace/>

Current Grants and Fellowships

American Council of Learned Societies, Digital Innovation Fellowship, 2007-2008

Newberry Library, Short-term Fellowship, 2007-2008

Current Research Area

Jupiter's Bow: Railroads, The Civil War, and the Roots of Modern America--This book project (Yale University Press) examines the relationship between the railroad culture of the 1850s and 60s and the coming, fighting, and aftermath of the American Civil War. The book research will draw on and from the digital project on Railroads and the Making of Modern America (<http://railroads.unl.edu>).

Appendix VII: Curriculum Vitae
High Performance Computing Center Staffs

DIANE A. BAXTER

EDUCATION

- 1975 BA - Biology, University of California, Los Angeles, CA
1983 Ph.D. - Zoology (Botany minor), Duke University, Durham, NC, John Sutherland, Advisor.
Dissertation Research: Population ecology of *Littorina irrorata* in a N.C. salt marsh

APPOINTMENTS

- 2/05 – Education Director, San Diego Supercomputer Center, UCSD, La Jolla, CA
9/02-1/05 Development Director, Quail Botanical Gardens, Encinitas, CA
9/00-9/02 Resource Development Specialist, Quail Botanical Gardens, Encinitas, CA
4/99-9/00 Development Director, Pflieger Institute of Environmental Research, Oceanside, CA.
8/98- 4/99 Education Partnerships Coordinator; Birch Aquarium at Scripps; Scripps Institution of Oceanography, University of California, San Diego
2/84- 8/98 Curator of Education, Birch Aquarium, Scripps Institution of Oceanography (SIO), UCSD.
1983 Coordinator, Public Understanding of Science Program, North Carolina Aquarium at Pine Knoll Shores, Atlantic Beach, N.C.
1977- 83 Teaching Assistant, Duke University Zoology Dept. & Duke Marine Laboratory, N. C.
1976 Research Associate, Botany Department, UCLA; Park S. Nobel, Supervisor

RELEVANT PUBLICATIONS AND PRESENTATIONS

- Baxter, D.; TeraGrid: Advancing Scientific Discovery and Learning; EDUCAUSE Annual Conference; October, 2007; Seattle, WA
Baxter, D., Partnerships and Pathways to the *Internet to the Hogan and Diné Grid*; Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) Annual Conference, October 2007, Kansas City, MO
Mason, A. and Baxter, D., *Evolution of TeacherTECH*; TeraGrid 07; June, 2007; Madison, WI
Baxter, D; *Power of Imagination: Next Generation Education*; Supercomputing 2006; Nov. 2006; Tampa, FL
Baxter, D.; McGinnis, L; Wiziecki, E.; *Internships and Mentoring to Broaden Participation in Computing*; TeraGrid 2006; June, 2006; Indianapolis, IN
Baxter, D.; *Education for a Changing World*; Supercomputing 2005; Nov. 2005; Seattle, WA
Cacciola, J. and Snodgrass, R, 2002, *Sea Star On-Board Ocean Science Curriculum*, D. Baxter, Editor
Education Department, Stephen Birch Aquarium-Museum, 1996, *Forecasting the Future: Exploring Evidence for Global Climate Change*, National Science Teachers Association Press, Arlington, VA

SYNERGISTIC PROFESSIONAL ACTIVITIES

- 2008 Education Program Co-Chair, TeraGrid '08 Annual Conference

2007 CI-TEAM Workshop Committee, July, 2007
 2006-2007 SC-07 Education Program Committee
 2006-2008 Board of Directors, Arroyo Paseo Charter School Foundation
 2006 Volunteer Committee Chair, SC 06 Education Program
 2006 Conference Committee, TeraGrid 2006 Conference, Indianapolis, IN
 2005-2008 San Diego Science Leadership Council, San Diego County Office of Education
 2005-2006 Advisory Board, Expanding Your Horizons, San Diego Science Alliance
 1998-2006 Children's Garden Design Committee, Quail Botanical Gardens
 1995-98 Board of Directors, San Diego Triton Project, U.S. Dept. of Education
 1992-98 Board of Directors, San Diego Urban Systemic Initiative (NSF program)
 1991-95 Steering Committee, San Diego's Project 2061, AAAS
 1988-92 Board of Directors, National Marine Educators Association
 1989 Marine Science Education Consortium, California Science Framework Committee

COLLABORATIONS & OTHER AFFILIATIONS

Current Projects:

SCI: TeraGrid Resources Partners (HPCOPS); Mark Sheddon, P.I.

TeraGrid (GIG) - Education, Outreach, and Training

Dane Skow, P.I., University of Chicago – Argonne National Laboratory; Scott Lathrop, Director, Education, Outreach, and Training; and External Relations

CI-TEAM: Minority-Serving Institutions Cyberinfrastructure Empowerment Coalition

Richard Alo, Principal Investigator; Geoffrey Fox, Co-PI; Alex Ramirez, Co-PI; Al Kuslikis, Co-PI; Selena Singletary, Co-PI; Diane Baxter, Co-PI

IT-EESET: Information Technology – Engineering and Environmental Science Education Tools, 2007-2009

Jeanne Ferrante, P.I.

BPC-D Worlds for Information Technology and Science (SDSC Dissemination Site Lead)

David Gries, P.I.; Margaret Corbit, Co-PI; Cornell University

UC-Village Links, UCSD Faculty Research Project and Sixth College Practicum; 2007-2008; Michael

Cole, P.I.; Laboratory of Comparative Human Cognition and Sixth College

Prior Projects (past 48 months):

Delivering Cyberinfrastructure: From Vision to Reality; Fran Berman, P.I.

CIP-EOT: CyberInfrastructure Partnership - Education, Outreach, and Training

Fran Berman, P.I.; Thom Dunning, Co-PI;

CI-TEAM: Minority-Serving Institutions Cyberinfrastructure Institute [MSI C(I)2]: Bringing Minority Serving Institution Faculty into the Cyberinfrastructure and e-Science Communities

Geoffrey Fox gcf@indiana.edu (Principal Investigator); Richard Alo (Co-P.I.); Carrie Billy (Co-P.I.); Alexander Ramirez (Co-P.I.); Karl Barnes (Co-P.I.)

EPIC; Expanding Participation in Computing

Moses, Greg; University of Wisconsin, Madison (P.I.); Giles, Roscoe; Boston University (co-PI)

SHAWN T. BROWN

Phone: (412) 268-4635

E-mail: stbrown@psc.edu

Web: <http://www.psc.edu>

PROFESSIONAL PREPARATION

Bethany College Chemistry B.S. 1993-1997

University of Georgia Chemistry Ph.D. 1997-2001

APPOINTMENTS

- Senior Scientific Specialist: Pittsburgh Supercomputing Center, Carnegie Mellon University, Mellon Institute (2005- present)
- Research Associate: Q-Chem, Inc. Suite 690, 5001 Baum Blvd., Pittsburgh, PA 15213 (2001-2004)

PUBLICATIONS (selected)

- “PSI3: An open-source ab initio electronic structure package.” Crawford T. D., Sherrill C. D., Valeev, E. F., Fermann J. T., King R. A., Leininger M. L., Brown S. T., Janssen C. L., Seidl E. T., Kenny J. P., Allen W. D. 2007, *J. Comp. Chem.*, 28, 1610.
- “Advances in methods and algorithms in a modern quantum chemistry program package”, Shao, Y, Molnar L. F., Jung, Y., Kussmann, J. Oschenfeld, C, Brown, S. T., Gilbert, A. T. B., et al 2006, *Physical Chemistry Chemical Physics B*, 8, 3172.
- “Enabling Computational Science on the Cray XT3”, Nystrom, N., Weisser, D., Lim, J., Wang, Y., Brown, S. T., Reddy, R., Stone, N.T.B., Woodward, P., Porter, D., Di Matteo, T., Kalé, L. V., Zheng, G.: Lugano 2006, CUG 2006 Proceedings Switzerland.
- “Efficient computation of the exchange-correlation contribution in density functional theory through multiresolution”, Kong, J, Brown, S. T., and Fusti-Molnar, L. 2006, *J. Chem. Phys.*, 124, 094109.
- “Interpolation of density values on a Cartesian grid: Improving the efficiency of Lebedev based numerical integration in Kohn-Sham density functional algorithms”, Brown, S. T. and Kong, J. 2006, *Chem. Phys. Lett.*, 408, 418.
- “IncDFT: Improving the Efficiency of Density Functional Theory Using Some Old Tricks”, Brown, S. T. and Kong, J. 2005, *Chem. Phys. Lett.*, 408, 395.
- “Unexpected encounters in simulations of the ALDH mechanism”, Hempel, J., Nicholas, H. B. Jr., Brown, S. T., Wymore, T. 2007, in “Enzymology and Molecular Biology of Carbonyl Metabolism”, 13, 9-13, Weiner, H., B. Plapp, R. Lindahl, and E. Maser, eds. Purdue University Press, Lafayette, IN.
- “A Combined Density Functional Theory and Molecular Mechanics (QM/MM) Study of FeCO

SYNERGISTIC ACTIVITIES

- collaborates with Troy Wymore at National Resource for Biomedical Supercomputing (NRBSC) and Martin Field from the Institut de Biologie Structurale in Grenoble, France to enhance the QM/MM, parallel and grid-enabled capabilities of the DYNAMO molecular dynamics library.
- co-organizer and instructor for a workshop held by the NRBSC on QM/MM calculations held at the PSC in Sept, 2007.
- collaborates with Axel Kohlmeyer and Michael Klein from the University of Pennsylvania providing HPC instruction to students of their University.
- co-organized the 2nd annual QM/MM workshop held in August '07 at Univ. Penn
- actively involved in the PSC’s collaboration with the TeraGrid, playing a key role as Advanced Support Consultant.
- actively worked with research groups all over the world to bring research and computer codes to modern computer architectures in fields such as chemistry, biology, epidemiology, geology, and mathematics.
- involved in furthering the organization’s role in computer science through involvement in Extreme Scaling and HPC University working groups for the TeraGrid.

- serves as a scientific contact and consultant for the Computational Chemistry and Materials (CCM) functional area under the User Productivity Enhancement and Technology Transfer (PET) component of the DoD's High Performance Modernization Program (HPCMP). See <http://www.hpcmo.hpc.mil/Htdocs/PET/>.
- collaboration with researchers from Virginia Tech's Bioinformatics institute (VBI, Stephen Eubank and Madhav Marathe) and RTI International (Doug Roberts and Diglio Simoni) to provide develop a large scale epidemiological computation capability to the TeraGrid.

COLLABORATORS

Wesley Allen, Univ. of Georgia

Jean Blaudeau, HPTi

Eric Bohm, UIUC

T. Daniel Crawford, Virginia Tech

Stephen Eubanks, Virginia Tech.

Martin Field, Institut de Biologie Structurale

Marek Freindorf, Univ. of NY at Buffalo

Thomas Furlani, Univ. of NY at Buffalo

Laszlo Fusti-Molnar, Univ. of Florida

Peter Gill, Australian National University

Mark Gordon, Iowa State University

Martin Head-Gordon, Univ. of Calif.,

John Hemple, Univ. of Pittsburgh

Curtis Jenssen, Sandia National Labs

L. V. Kale, UIUC

Nicholas Karonis, N. Illinois University

Gary Kedzora, HPTi

Joseph P. Kenny, Sandia National Laboratory

Jing Kong, Q-Chem, Inc.

Anna Krylov, Univ. of Southern California

Jerzy Leszczynski, Jackson State University

Madhav Marathe, Virginia Tech.

Shirley Moore, University of Tennessee, Knoxville

Hugh Nicholas, PSC

Nicholas Nystrom, PSC

Andrew Rappe, University of Pennsylvania

Doug Roberts, RTI

Tony Rollett, Carnegie Mellon University

Yihan Shao, Q-Chem, Inc.

Berkeley David Sherrill, Georgia Tech.

Diglio Simoni, RTI

Joel Stiles, PSC

Edward Valeev, Virginia Tech.

Deborah Weisser, Cray, Inc.

Troy Wymore, PSC

Anthony Yau, HPTi

GRADUATE AND POST DOCTORAL ADVISORS

Henry F. Schaefer III, graduate advisor, University of Georgia, Athens, GA

LAURA F. MCGINNIS

Pittsburgh Supercomputing Center

Carnegie Mellon University

300 South Craig St, #313

Pittsburgh, PA 15213

412-268-5642

LFM@psc.edu

a. Professional Preparation

University of Pittsburgh Computer Science B.Sc., 1982

Carnegie Mellon University Industrial Administration M.Sc., 1999

b. Appointments

2006-present Project Manager, Systems & Operations, PSC
1999-2006 Project Coordinator, Data & Information Resource Services, PSC
1996-1999 Senior Database Administrator, Management Information Systems, PSC
1993-1996 Senior Software Engineer, Computing Services, Carnegie Mellon University
1990-1993 Senior Software Engineer, Administrative Computing and Information Systems, Carnegie Mellon University
1989 Consultant, Computer Specialists, Inc., Pittsburgh PA
1987-1989 Manager, Technical Services: Strategic Financial Group
1984-1986 Programmer/Analyst, Support Consultant, Telesis Computer Corporation, Pittsburgh, PA
1982-1984 Database Programmer/Analyst, University of Pittsburgh Medical Center, Pittsburgh, PA
1982-1984 Part-time Instructor, Department of Computer Science, University of Pittsburgh

c. Publications

1. R. Mach, R. Lepro-Metz, S. Jackson, L. McGinnis . “Usage Record – Format Recommendation”; Open Grid Forum Document Series, GFD.98 (approved March 2007).
2. Catlett, Charlie, and 95 others. “TeraGrid: Analysis of Organization, System Architecture, and Middleware Enabling New Types of Applications,” in *High Performance Computing and Grids in Action*, ed. L. Grandinetti, IOS Press of Amsterdam (to appear).

d. Synergistic Activities

TeraGrid

- HPC University Requirements Analysis Team – Chairperson
- HPC University Working Group – Member
- Education, Outreach, and Training Working Group – Training Coordinator
- TG06, TG07 National Conferences – Birds-of-a-Feather Chairperson, committee member
- TG08 National Conference – Poster Session Chairperson
- Core Service 2.0 Project – Component Coordinator Open Grid Forum
- Usage Record Working Group: Chairperson; editor of the Usage Record Schema specification, v.1.
- Production Grid Services Research Group: Co-Chairperson Supercomputing Science Consortium
- Grids and Clusters Working Group chairperson

e. Collaborators and Other Affiliations

Collaborators and Co-Editors

Catlett, Charlie Argonne National Laboratories
Hart, Dave San Diego Supercomputer Center
Milfeld, Kent Texas Advanced Computing Center
Quinn, Steve National Center for Supercomputing Applications
Skow, Dane University of Chicago/Argonne National Lab
Towns, John National Center for Supercomputing Applications

JOHN URBANIC

(a) Professional Preparation

Carnegie Mellon University Physics B.S. 1989
Pennsylvania State University Physics M.S. 1991

(b) Appointments

1998-2007 Staff Computational Science Consultant, Pittsburgh Supercomputing Center
1993-1998 Sr. Computation Science Consultant, Pittsburgh Supercomputing Center

1991-1993 Computational Science Consultant, Pittsburgh Supercomputing Center

(c) Publications (selected)

Kemal Ebcioglu, Vivek Sarkar, Tarek El-Ghazawi, John Urbanic. An Experiment in Measuring the Productivity of Three Parallel Programming Languages. Proceedings of the Third Workshop on Productivity and Performance in High-End Computing (PPHEC-06) Held in conjunction with the Twelfth International Symposium on High Performance Computer Architecture, 2006.

Nystrom, N.A., Urbanic, J., and Savinell, C. Understanding Productivity Through Nonintrusive Instrumentation and Statistical Learning. Proceedings of the Second Workshop on Productivity and Performance in High-End Computing (PPHEC-05), 2005. 53-61.

Jacobo Bielak, Omar Ghattas, Julio C. Lopez, Kwan-Liu Ma, David R. O'Hallaron, Leonardo Ramirez-Guzman, Nathan Stone, Ricardo Taborda-Rios, John Urbanic. Analytics challenge---Remote runtime steering of integrated terascale simulation and visualization, Proceedings of the 2006 ACM/IEEE conference on Supercomputing, Tampa, Florida, 2006 ISBN:0-7695-2700-0

Nick Nystrom, Deborah Weisser, and John Urbanic. The SUMS Methodology for Understanding Productivity: Validation Through a Case Study Applying X10, UPC, and MPI to SSCA#1. Proceedings of the Third Workshop on Productivity and Performance in High-End Computing (PPHEC-06), 2006.

D. C. O'Neal and J. Urbanic, On Microprocessors, memory hierarchies, and Amdahl's law, Proceedings of the DoD HPCMP Users Group Conference, Monterey, CA, 1999.

Volkan Akcelik, Jacobo Bielak, George Biros, Ioannis Epanomeritakis, Antonio Fernandez, Omar Ghattas, Eui Joong Kim, Julio Lopez, David O'Hallaron, Tiankai Tu, and John Urbanic. High Resolution Forward and Inverse Earthquake Modeling on Terascale Computers, Proceedings of ACM/IEEE SC2003, Phoenix, AZ, 2003 ISBN:1- 58113-695-1

Nikhil Kelshikar, Xenophon Zabulis, Jane Mulligan, Kostas Daniilidis, Vivek Sawant, Sudipta Sinha, Travis Sparks, Scott Larsen, Herman Towles, Ketan Mayer-Patel, Henry Fuchs, John Urbanic, Kathy Benninger, Raghurama Reddy, , and Gwendolyn Huntoon. Real-time Terascale Implementation of Tele-immersion. In Proc. of the Terascale Performance Analysis Workshop, Melbourne, Australia, June 2003. In conjunction with ICCS'2003 - International Conference on Computational Science (LNCS 2660)

(d) Synergistic Activities

Teach multiple workshops and seminars on massively parallel computing each year. This training specifically targets scientists, not programmers, and very large platforms.

Developed with Carnegie Mellon Robotics Institute Eyevision™ system used by CBS in 2001 Superbowl and succeeding broadcasts. Responsible for real-time camera robot control.

(e) Collaborators & Other Affiliations (2003-2007)

- Collaborators and Co-Editors.
 - o Volkan Akcelik Carnegie Mellon University
 - o Kathy Benninger Pittsburgh Supercomputing Center
 - o Jacobo Bielak Carnegie Mellon University
 - o George Biros University of Pennsylvania
 - o Kostas Daniilidis University of Pennsylvania
 - o Kemal Ebcioglu International Business Machines
 - o Ioannis Epanomeritakis Carnegie Mellon University
 - o Antonio Fernandez Carnegie Mellon University

- o Henry Fuchs UNC Chapel Hill
- o Omar Ghattas University of Texas, Austin
- o Tarek El-Ghazaw George Washington University
- o Gwendolyn Huntoon Pittsburgh Supercomputing Center
- o Nikhil Kelshikar University of Pennsylvania
- o Eui Joong Kim Carnegie Mellon University
- o Scott Larsen UNC Chapel Hill
- o Julio C. Lopez Carnegie Mellon University
- o Kwan-Liu Ma University of California, Davis
- o Ketan Mayer-Patel UNC Chapel Hill
- o Jane Mulligan University of Colorado at Boulder
- o Nystrom, N.A Pittsburgh Supercomputing Center
- o David R. O'Hallaron Carnegie Mellon University
- o D. C. O'Neal Pittsburgh Supercomputing Center
- o Leo Ramirez-Guzman Carnegie Mellon University
- o Raghurama Reddy Pittsburgh Supercomputing Center
- o Vivek Sarkar International Business Machines
- o Vivek Sawant University of Pennsylvania
- o Savinell, C. Pittsburgh Supercomputing Center
- o Sudipta Sinha UNC Chapel Hill
- o Travis Sparks UNC Chapel Hill
- o Nathan Stone Pittsburgh Supercomputing Center
- o Ricardo Taborda-Rios Carnegie Mellon University
- o Herman Towles Herman Towles
- o Tiankai Tu Carnegie Mellon University
- o Deborah Weisser Pittsburgh Supercomputing Center
- o Xenophon Zabulis University of Pennsylvania

Appendix VIII: Previous Workshop Experiences

Date	Workshop	Location	Participants	Sponsoring Organization
Dec-05	Introduction to Digital Humanities	NCSA	100	I-CHASS
February 2006 (repeated 2007 2008)	Text Encoding Initiative	NCSA	20 per year	I-CHASS and GSLIS
Mar-06	Using iLife 06 in Teaching and Research	NCSA	50	Apple, Inc.
Summer 2006	Cyberinfrastructure in the Humanities, Arts, and Social Sciences	SDSC	60	National Science Foundation/ EPIC
Sep-06	Katrina: After the Storm – Civic Engagement Through Arts, Humanities and Technology	NCSA	150	I-CHASS/NCSA/University of Illinois
Dec-06	Spatial Thinking in the Social Sciences and Humanities	NCSA	80	I-CHASS/EPIC
Jun-07	e-Science for Arts and Humanities Research: an Early Adopters Forum	NCSA	25	I-CHASS/King’s College, London
Jun-07	Digital Humanities07	NCSA	400	GSLIS /I-CHASS/NCSA/University of Illinois
Summer 2007	Computational Methods in Humanities, Arts, and Social Science	SDSC	35	Supercomputing 07 Education Committee/TeraGrid
Apr-08	SEASR Mini-Residencies	NCSA	25	Mellon Foundation/SEASR/NCSA/Illinois Informatics Initiative (I3)
Apr-08	Supercomputing 08 Planning Workshop	NCSA	20	Supercomputing 08 Education Committee
July 13- July 19, 2008	Bio-Nano-Info-Socio Workshop	San Jose, Costa Rica	~30	I-CHASS, NCSA, ARTCA
July 27- August 3, 2008	High Performance Computing	NCSA	~35	Supercomputing 08 Education Committee
Sep-08	Data-Mining in the Humanities	NCSA	~45	Mellon Foundation/SEASR/NCSA/Illinois Informatics Initiative (I3)

Appendix IX: Computational and Logistical Resources

Facilities, Equipment and Other Resources

NCSA continues to support user communities by offering the resources that are the foundations of advanced cyberinfrastructure. The total computational resources exceed 145 TF supported by over 1.3 PB of disk storage as part of the infrastructure. The systems are on an internal multi-10GigE network. Below is a summary of those resources.

NCSA Compute Resources

Abe

Clovertown 2.38Ghz Blades from Dell
Interconnect: InfiniBand
1200 blades, 2400 processors (quad core)
8GB of memory per blade (1 GB/core), 9.6TB total
Peak performance: 89.5TF
170 TB Lustre filesystem

Mercury, Phase 1 (Hg 1)

Itanium 2 1.3 GHz IBM Linux cluster
Interconnect: Myrinet 2000
256 nodes, 512 processors
4 GB and 12 GB memory/node, 2.0 TB total
Peak performance: 2.6 TF
100 TB GPFS filesystem, NFS, Lustre WAN, GPFS WAN

Mercury, Phase 2 (Hg 2)

Itanium 2 1.5 GHz IBM Linux cluster
Interconnect: Myrinet 2000
667 nodes, 1334 processors
4 GB memory/node, 2.5 TB total
Peak performance: 8 TF
100 TB GPFS filesystem, NFS, Lustre WAN, GPFS WAN

Cobalt (Co)

SGI Altix systems, 2x512 processors Itanium 2 1.6 GHz systems, Linux
Interconnect: SGI, Numalink
1,024 processors
4 TB total memory
Peak performance: 6.6 TF
250 TB SAN storage with SGI CxFS filesystem
8 x 8p SGI Prism visualization systems with Infiniband interconnects to the 512p SMPs

Tungsten

Intel Xeon 3.2 GHz Dell Linux cluster
Interconnect: Myrinet 2000
1280 nodes, 2560 processors
3 GB memory/node, 3.8 TB total
Peak performance: 16.4 TF

122 TB Lustre filesystem

T3

Woodcrest 2.66 Ghz Blades from Dell

Interconnect: InfiniBand

520 Blades, 1,040 processors (dual core)

8GB of memory per blade (2 GB/core), 4.1 TB total

Peak performance: 22.1 TF

20 TB Lustre filesystem

Primarily used by NCSA Private Sector Program Partners

Mass Storage

The environment currently consists of 3 SGI Origin 3900 servers running EMC/Legato DiskExtender (UniTree) with 180TB of SAN disk cache, 38 LTO2 tape drives, 14 IBM LTO3 tape drives, and 1 ADIC library. The total archival storage capacity of this environment is 5 PB.

Infrastructure SAN

384 TB of SAN connected storage for infrastructure and special projects. This utilizes a high availability SAN configuration allowing for multiple paths to the storage depending on applications needs to access data. Backups and other configuration parameters can be added depending on applications needs.

High Performance Network

All computing platforms are interconnected to a multi-10gigabit network core. NCSA's highperformance computing environment has access to Abilene via a 10-gigabit-per-second connection. NCSA also is one of the leading sites for I-WIRE, an optical networking project funded by the state of Illinois. I-WIRE provides lambda services for several projects, including NCSA's 30-gigabit-per-second connection to the TeraGrid network.

Display Systems

Tiled Display Wall: This environment consists of 40 NEC VT540 projectors, arranged in a matrix 5 high and 8 across. The output of the NEC VT540s is rear-projected towards a single screen, creating a large-format, high-resolution image space that is 8192 x 3840 pixels. A 40-node PC Linux cluster is used to drive the display wall. The machines are dual-processor Intel Xeons, running at 2.4 GHz, with Nvidia FX 5800 Ultra graphics accelerator cards, and communicating over Myrinet.

High Definition Passive Stereo Theater: The NCSA High Definition Passive Stereo Theater is a 1920x1080 display on an 6' x 3' x 5' screen. The projectors used are JVCD-1LA. The display is driven by a dual AMD Opteron 242 processor running at 1.6 GHz. Graphics hardware consists of a Nvidia Quadro FX3000.

Applications Software

NCSA offers a variety of third-party applications and community codes that are installed on the High-performance systems at NCSA. These applications cover a wide range of science and engineering domains, data analytics and visualization, mathematics and statistics. Complete information on the packages available and detailed descriptions of them are available at:

<http://hpcsoftware.ncsa.uiuc.edu/Software/user/index.php?view=NCSA>.

Conferences & Institutes

A division of the University of Illinois' Office of Continuing Education , Conferences & Institutes will offer program development assistance; coordination of logistics; coordination of registration services, including the creation and management of an online registration database and on-site management; coordination of all marketing and promotional materials and services; establishment and management of a University account to collect registration income and pay conference expenses; and an itemized financial report after the institute.

Appendix X: Letters of Commitment and Support

Note: The Letters of Support were signed and collected by I-CHASS prior to the withdrawal of the Texas Advanced Computing Center (TACC) from this H^PC grant. A research center at the University of Texas at Austin, TACC provides advanced computing resources and services to enable computationally-intensive research via the development, operation, and support of advanced computing technologies. TACC's curriculum outlined a program of study in its "scientific visualization" technology, EnVision. EnVision dramatically simplifies the process of turning large amounts of numerical data into an intuitive, immersive, and interactive visual display. In its notification of withdrawal, TACC determined that they were unable to participate at this time because the technology had not been adequately adapted to humanities research. Group Leader Brad Armoskey related that TACC would like I-CHASS to consult on the adaptation of this resource for humanities users and would join in the next stage of this grant. The Support offered by the enclosed individuals remains consistent despite this change.
