2007 Highlight of Achievements
March 2007 - February 2008

Helena Mitchell, Ph.D.
Executive Director

CACP’s mission is to provide critical research, analysis and recommendations on advanced communications and technology policy issues. Our research focus is applied policy studies, advanced communications and technology research, emergency communications, vulnerable populations including people with disabilities, e-government and social change, and technology shifts. We are sought out as policy advisors at the international, national, State and local levels.

Within this document we have encapsulated highlights of the past years’ efforts from our researchers and technical staff. It is divided into five areas: Instruction (pgs. 1-2); Research and Creative Scholarship (pgs. 2-7); Presentations, Academic & Community Activities (pgs. 7-14); Sponsored Funding (pgs. 15-16); Memberships, Board Memberships & National Recognition (pgs. 16-18).

This year there were more than 40 publishing activities; 18 external presentations; active participation in 34 academic and industry associations; 11 student assistantships or advisory roles by faculty of CACP; and over 40,000 website hits. Sponsored research was funded at $1,080,188; outreach and dissemination reached over 3500 people not including those reached by the seven press articles and other external/internal coverage of our projects; and filings before the Federal Communications Commission resulted in five references in official rulemakings.

INSTRUCTION


James White, Ph.D., Instruction Portfolio

**Graduate**
- **Spring 2008** Public Policy 8803: Global Communications
- **Fall 2007** Public Policy 6514: Mass Communications Policy
- **Spring 2007** Public Policy 6514: Mass Communications Policy

**Undergraduate**
- **Spring 2008** Public Policy 4803: Global Communications
- **Spring 2008** Political Science 1101: Government of the United States of America
- **Fall 2007** Public Policy 4514: Mass Communications Policy
- **Fall 2007** Political Science 1101: Government of the United States of America
- **Summer 2007** Political Science 1101: Government of the United States of America
- **Spring 2007** Public Policy 4514: Mass Communications Policy
- **Spring 2007** Political Science 1101: Government of the United States of America

**CACP Students**
- DeeDee Bennett, Masters Student, Helena Mitchell – Thesis Chair
- DeeDee Bennett, Helena Mitchell - Independent Study Instructor
- Brook Brandon, Masters Student, Helena Mitchell – Thesis Committee
- Brook Brandon, Masters Student, Paul M.A. Baker – Thesis Committee
- Austin Dickson, Masters Student, Paul M.A. Baker – Graduate Research Advisor
- Avonne Bell, Masters (graduated), Paul M.A. Baker – Graduate Research Advisor
- Nathan Moon, Ph.D. Candidate, Paul M.A. Baker – Graduate Research Advisor
- Taylor Narewski, Masters Student, Paul M.A. Baker – Graduate Research Paper Advisor
- Taylor Narewski, Masters Student, Paul M.A. Baker – Independent Study Instructor
- Taylor Narewski, Masters Student, James White – Graduate Research Advisor
- Mike Moreland, Masters Student, James White – Graduate Research Advisor

**RESEARCH AND CREATIVE SCHOLARSHIP**

*Journal Articles (refereed) (9):*


Books/Book Chapters (5):


Published papers, non-refereed (reports, reviews, trade publications, commentaries) (26):
Nathan W. Moon, editor, Telecom and IT Policy Highlights, Center for Advanced Communications Policy, 10 issues annually.

Technology and Disability Policy Highlights, Center for Advanced Communications Policy, and Wireless RERC, 10 issues annually. (Salimah Major, Lynzee Head and Austin Dickson (eds.)


Nathan W. Moon, “Private Sector Telework and Its Implications for Economic Development: Results of a Case Survey,” Science, Technology & Innovation Policy (STIP) Program, School of Public Policy and Enterprise Innovation Institute, Georgia Institute of Technology, August 2007.


Helena Mitchell, Salimah Major, Frank Lucia and Ed Price. 12 Considerations for Accessible Emergency Communications. Fall 2007. This document is an introduction to select considerations to help meet the distinctive needs of people with disabilities during an emergency. It covers technology, policy, training and education considerations that need to be addressed. It also provides a list by category of websites with topic specific information. This document has been distributed at public safety conferences including the Critical Incident Preparedness Conference, Nov 2007; National Emergency Preparedness Coordinating Council Regional Conference, October 2007; Government Technology Conference, November 2007.

*Federal Communications Commission, Washington, D.C. Filings on Regulatory Rulemakings:*

Mitchell, Helena; Frank Lucia and Ed Price. Filed comments in response to FCC Notice of Proposed Rulemaking regarding the Commercial Mobile Alert System Docket No. 02-857. Federal Communications Commission: Washington, DC, 4, February 2008. The comments specifically addressed recommendations on expediting the availability of the CMAS to the American public; ways to encourage wireless carriers’ participation in CMAS; and ensuring that the elderly and people with disabilities are included in any planning for emergency alerting systems.
Baker, Paul M.A.; Ed Price, Ben Lippincott, Jim Mueller, Lynne Broderick, and Helena Mitchell. Comments filed by the Wireless RERC in response to In the Matter of Amendment of the Commission’s Rules Governing Hearing Aid-Compatible Mobile Handsets (WT Docket No. 07-250). Federal Communications Commission: Washington D.C., Dec 20 2007. The comments reported that the Delphi Policy study and Survey of User Needs noted that consumers continued to have problems with the interoperability of cell phones and hearing aids and also noted that overwhelmingly, study respondents identified “device incompatibility or poor interoperability,” as a very important or important issue with cell phones. Findings further revealed that these users continued to run up against barriers to full usability of their device, which could be addressed through the regulatory process.

Mitchell, Helena; Laurel Yancey, and Paul M.A. Baker. Filed comments in response to Second Report and Order and the Further Notice of Proposed Rulemaking, Review of the Emergency Alert System (EB Docket No. 04-296). Federal Communications Commission: Washington, D.C. 3, December 2007. Comments specifically addressed how EAS could improve its operations procedures and systems; integrate wireless technologies into all emergency alerting systems; and assure that people with disabilities are included in any planning or development of technologies so that accessible emergency information could be made available in a timely manner.

Mitchell, Helena; Laurel Yancey, and Paul M.A. Baker. Filed comments in response to” Service Rules for the 698-746, 747-762 and 777-792 MHz Bands (WT Docket No. 06-150); Revision of the Commission’s Rules to Ensure Compatibility with Enhanced 911 Emergency Calling Systems (CC Docket No. 94-102); Section 68.4(a) of the Commission’s Rules Governing Hearing Aid-Compatible Telephones (WT Docket No. 01-309); Biennial Regulatory Review – Amendment of Parts 1, 22, 24, 27 and 90 to Streamline and Harmonize Various Rules Affecting Wireless Radio Services (WT Docket No. 03-264); Former Nextel Communications, Inc. Upper 700 MHz Guard Band Licenses and Revisions to Part 27 of the Commission’s Rules (WT Docket No. 06-169); Implementing a Nationwide, Broadband, Interoperable Public Safety Network in the 700 MHz Band (PS Docket No. 06-229); Development of Operational, Technical and Spectrum Requirements for Meeting Federal, State and Local Public Safety Communications Requirements Through the Year 2010 (WT Docket No. 96-86). Federal Communications Commission: Washington D.C., 23, May 2007. Our filing addressed the portions of the rulemaking that discussed the proposed public safety network and the technical and spectrum requirements to maximize use of the 700 MHz. We suggested that the shared use of the spectrum by public and private entities could promote optical spectrum efficiency of the upper 700 MHz band. In addition, any reallocation of spectrum needed to incorporate the needs of people with disabilities; promote the use of universal design by commercial vendors; and that the 700 MHz band plans for a nationwide interoperable broadband network for public safety should be accessible.
Baker, Paul M.A., Ed Price and Helena Mitchell. *Comments filed by the Wireless RERC in response to “Inquiry Concerning the Deployment of Advanced Telecommunications Capability to All Americans in a Reasonable and Timely Fashion, and Possible Steps to Accelerate Such Deployment Pursuant to Section 706 of the Telecommunications Act of 1996, GN Docket No. 07-45.* Federal Communications Commission: Washington D.C., 16, May 2007. Our filing stressed the need for heightened awareness on the part of service providers, manufacturers, and designers regarding the specific needs of people with disabilities. Particularly we raised issues of accessibility and availability of broadband connectivity with respect to deployment of municipal WiFi networks. Preliminary findings of research suggested that while deployment of these networks might be a valuable alternative for the delivery of connectivity, there currently was a lack of consideration of the needs of people with disabilities, thereby potentially limiting their access.

**PRESENTATIONS, ACADEMIC & COMMUNITY ACTIVITIES**

*Conference Presentations (13):*


James White, “A Symposium on Computation & Journalism.” Georgia Institute of Technology, Atlanta, Georgia. Feb 22-23, 2008. (*Representing the CACP*).


Laurel Yancey, Participant at the FCC First Responder’s Summit, Focus on Public Safety Communications, April, 20, 2007, Washington, DC (gathered information on the NTIA Public Safety Interoperable Communications (PSIC) Grant Program release date, its criteria and its grant manager contact as well as general networking and gathering of contacts).


Other Presentations (5):


Paul M.A. Baker, Panelist on “IT Workforce - Now and Tomorrow” Georgia Digital Technology Summit, October 11-12, 2007, Atlanta, GA.

Helena Mitchell, spoke at the Women’s Resource Center Graduate Women’s Luncheon on Experiences in Research and Academia: Personal Reflections from African-American Women Faculty and Researchers. This event was part of the Black History Month activities at Georgia Tech. February 19, 2008.


Dissemination Activities (9):

Nathan Moon
Contact with Cookerly Public Relations, Atlanta, Georgia, regarding dissemination of broad telework research (STIP paper & presentation) to national media outlets (contact with Joey Ledford at joey@cookerly.com)

Use of Telework Case Survey paper in Ericsson newsletter (contact with Karin Reves at karin.reves@citat.se)

Contributor to and quoted in two articles for Government Technology, “Technology Can Improve Lives,” and “Like We’re Not Even Here,” both by Gina M. Scott, 16 April 2007.

Helena Mitchell
More than 550 Wireless RERC and more than 400 CACP brochures were distributed at events attended during this past fiscal year.
More than 300 copies of the 12 Considerations... and about 50 copies of papers presented at conferences beyond their publication in proceedings, etc.

More than 25 requests from law firms, such as King and Spalding, industry groups such as CTIA, Alcatel Lucent, and government entities such as Georgia Technology Authority regarding our 700 MHz filings and Emergency Alert System filings. This was in addition to the number of people who reviewed our filings on-line at the FCC ECFS website.

Disseminated 40 CACP brochures and spoke at the Women’s Resource Center Graduate Women’s Luncheon on Experiences in Research and Academia: Personal Reflections from African-American Women Faculty and Researchers. This event was part of the February 2008 Black History Month activities at Georgia Tech.

Interview on Georgia Public Broadcasting radio program “Eye on Blindness,” May 9th 2007.

Two press articles including Research Horizons (Winter/Spring 2007 issue).

Collaborations & Meeting Presentations (39):

Creation of the ICT Study Group. Four faculty members, James White, Hans Klein, Paul M.A. Baker and Helena Mitchell created a new opportunity for faculty and students to discuss ICT topics of interest. They met bi-weekly to organize and develop the sessions. The study group was formed as a focal point for policy research on information and communication and the technology that facilitates them. The ICT Study Group conducts, synthesizes and disseminates multi-disciplinary research, sponsors forums and speakers, and provides objective analysis for current policy debates. Participating units in the ICT Study Group include the Center for Advanced Communications Policy (www.cACP.gatech.edu) and the Internet and Public Policy Project (www.IP3.gatech.edu), located in the School of Public Policy.

In Fall 2007 the ICT Study Group held a series of brown bag talks introducing the diverse work of the group. The initial topics presented by the four organizers included “Sandy Springs and Dunwoody: New Models for Citizen Communications?”; “Accessibility in Municipal Wireless Networks: System Implementation and Policy Considerations”; "Legitimacy and Global Public Policy: The Case of the Internet"; and “The FCC vs. the Industry: managing public safety emergency communications and commercial wireless broadband deployment."
Helena Mitchell
National Emergency Preparedness Coordinating Council Regional Conference. Invited
as the new member to their Emergency Governance Workgroup to present an In-Brief on
advancements in emergency communications to assist people with disabilities. One of
only 2 educators that serve on the NEPCC, EGW.

Presentation to the Mayor of Sandy Springs, city manager, and other key public safety
officials regarding emergency communications and alerts – past, present and future
deployments.

Presented on the Wireless RERC, Wireless Emergency Communications (WEC) project
and use of varied devices for field testing with the Secretary General for the Department
of Communications, Republic of Ireland, his two technical staff members and researchers
of GTRI.

Presentation at the RERC for Wireless Technologies Annual Advisory Board Meeting on

Presentation to Public Broadcasting Atlanta, Board of Directors on the opportunities of
using wireless technologies for emergency communications. Extended an invitation for
them to partner on our field testing of a working prototype to deliver EAS messages in
audible and SMS formats. They have accepted.

Presentation to the Atlanta Public Schools Office of Security, Chief Maquenta Sands,
regarding collaborative grant opportunity on Homeland Security and wireless
technologies. Firm agreement to pursue the funding.

Presentation to Herbert White, Project Manager, National Weather Service (NWS) to
discuss our potential field testing of emergency alerts using NWS notification coding.
They granted permission to use their coding.

Short presentation at the National Association of State Broadcasters Association meeting
to discuss how we might help them provide more accessible alerts to address the disabled
community need for critical information during emergencies.

Area 7 All Hazards Council meeting, discussed need for assessment of goals, strategies
and needs of individual working committees’ groups to incorporate in the State of
Georgia regional plan.
Presentation to the Georgia Radio Reading Service, Board of Trustees on WEC project and extended an invitation for them to partner on our field testing of a working prototype to deliver EAS messages in audible and SMS formats. They accepted and in February became the first field test site (see attached press release).

Participated in DHS Modeling and Simulation Interoperability national teleconference and provided verbal input on ways to improve training and education of first responders.

Presentation to the Veterans Administration, Research & Development office (Vincent Martin and David Ross) regarding potential collaboration of their project on emergency egress for the blind with our WEC project.

Briefed Dr. Arthur Yancey, Deputy Director/Emergency Medicine for Fulton County Department of Health and Wellness on WEC project and activities in an effort to pursue possible grant collaborations.

Collaborated with the Rochester Institute of Technology’s National Technical Institute for the Deaf, PBA, GaRRS, Atlanta Public School system and CATEA on the submission of a proposal for NIDRR’s Priority 11, RERC on Emergency Management Communications, which would leverage our on-going work.

Paul M.A. Baker


Research collaboration with John Bricout, University of Central Florida, on IBM Business of Government grant submission, September, 2007.

Nathan Moon


Nathan Moon, Contact with Cookerly Public Relations, Atlanta, Georgia, regarding dissemination of broad telework research (STIP paper & presentation) to national media outlets (contact with Joey Ledford at joey@cookerly.com).

Laurel Yancey
Met with Dr. Arthur Yancey, Deputy Director/Emergency Medicine for Fulton County Department of Health and Wellness to discuss possible collaboration on NTIA grant opportunity.

Several meetings with the International Academy for Disability Rights at Kennesaw State University regarding a grant development project for the US Department of State. One key focus of the grant is to build a disability policy model based on US regulatory telecom and US workplace accommodation achievements, which CACP will be heading.

Monitored and assessed discussion of FCC’s Commercial Mobile Service Alert Advisory Committee and presented a full review to enhance the filing of the WEC team as it made preparations for submitting comments on the Committees final recommendations.

Participated in the Global Initiative for Inclusive Technologies (G3ict) planning conference calls for the G3ict roundtable on wireless emergency communications to be held in Washington, DC the Fall of 2007.

Salimah Major
Traveled to St. Petersburg, Florida to assist. as co-sponsor of event, planning and event staff at the ICADI conference. February, 2008.
Met with Chief Marquenta Sands, M.Ed., Director of Security, Atlanta Public Schools, regarding potential collaborations on grants and her involvement with WEC.


Met with Vincent Martin, GaRRS Board member and David A. Ross, M.S.E.E., M.Ed., Biomedical Research Engineer, regarding potential areas of collaboration. David Ross is currently working with RFID and emergency egress for the Blind.

Attended the National Emergency Preparedness Coordinating Council (NEPCC) regional Conference and provided input on their working draft Emergency Governance and Business Continuity.

Attended Georgia Technology Authority’s Executive Leadership Forum at the Georgia Digital Summit. The forum’s topic was Pandemic Flu Preparedness and Response. Panelists discussed business continuity and telework options.

Met with Dr. Ashby, Director, Atlanta Area School for the Deaf and Kenneth Moore, Assistant Director of Resource Management, regarding potential areas of collaboration and utilizing their staff and faculty as volunteers for WEC field testing.

Ken Bernard

Attend Georgia Technology Conference representing IT interests of CACP on October 11-12, 2007.

Jacqueline Herndon
Traveled to St. Petersburg, Florida to assist. as co-sponsor of event, planning and event staff at the ICADI conference. February, 2008.

SPONSORED FUNDING (7)

Active (7):

Paul M.A. Baker, Ph.D., Project Director, Southeast Disability and Technical Assistance Center, Syracuse University/CATEA. $17,110, 12/07 – 9/08.

Paul M.A. Baker, Ph.D., Project Director, Workplace Accommodations RERC, U.S. Dept. of Education/NIDRR, $70,784.00, 11/07 – 10/08


Nathan Moon, AAHM Travel Grant, American Association for History of Medicine, February 2008, $500.00.

Nathan Moon, (APPLIED) Short-term Fellowship, Chemical Heritage Foundation, Philadelphia, PA for 2008-2009. $6,000.00

Nathan Moon, GIT President’s Fellowship awardee, $3,666 per year.

Pending (3):

James White, Ph.D. P.I. November 26, 2007. Communications proposal submitted to the City of Sandy Springs: Emergency communications for the City of Sandy Springs: a review and a proposal, $205,958.00.

Helena Mitchell, Ph.D. P.I. November 26, 2007. Communications proposal submitted to the City of Sandy Springs: Wireless Emergency Communications Devices for the City of Sandy Spring, $106,000.00.

Expired during the reporting period:
Nathan Moon, Paid Intern with Science, Technology & Innovation Policy (STIP) Program, School of Public Policy and Economic Innovation Institute, June-August 2007.

**MEMBERSHIPS, BOARD MEMBERSHIPS AND NATIONAL RECOGNITION:**

Helena Mitchell (17)


Board of Directors, Public Broadcasting Atlanta (WPBA-TV/WABE-FM), 2004-present.

Chair, British Computing Society (BCS) USA Section, Wireless Specialist Group, 2005-present.

Member, BCS Wireless Specialist Group and Disability Specialist Group, 2004-present.

Chair, Advisory Board, Atlanta Technical College, 2003-present.


Board of Directors, Georgia Radio Reading Service (GaRRS), 2001 – present.

Advisory Council, Georgia Tech Center for International Business Education and Research, 2000 – present.

Technology Advisory Council, Georgia Municipal Authority, 2000 – present.

Education and Outreach Committee, Georgia Tech/Emory Center for Engineering of Living Tissues, 2000 – present.

Member, International Communications Association, 2007 – present.

Guest editor for the IEEE Pervasive Computing special issue on the Smartphone.

Paul M.A. Baker (14)

Member, Editorial Board, Assistive Technology Journal.
Member, International Journal of Cases on Electronic Commerce (IJCEC).
Member, Journal of Information Technology & Politics.
Member, Government Affairs Committee, Rehabilitation Engineering Society of North America (RESNA).
Member, American Political Science Association.
Member, Association for Public Policy Analysis and Management (APPAM).
Member, American Society for Public Administration.
Member, Association of Internet Researchers.
Member, American Planning Association.
Member, American Sociological Society.
Member, American Institute of Certified Planners.
Member, Rehabilitation Engineering Society of North America (RESNA): Government Affairs Committee.
Member, International Communications Association.
Faculty Advisor, Georgia Institute of Technology Equestrian Club.
Nathan Moon (2)

Chair of Ad-Hoc Committee on Student Affairs, American Association for the History of Medicine, November 2004-June 2007.
- organized Student Section luncheon and meeting, 2007 Annual Meeting, Montreal, Quebec
- developed AAHM Student Section webpage, May 2007
- established AAHM-Students listserv, May 2007

Member, Steering and Program Committee, Joint Atlantic Seminar for History of Medicine, October 2004 - present.
- planning for Fifth Annual JAS-Med Conference, Johns Hopkins University, September 2007
- planning for Sixth Annual JAS-Med Conference, Yale University, September 2008

Jacqueline Herndon (1)