

BIOGRAPHICAL SKETCH

NAME Michael Hites	POSITION TITLE Vice President, Planning and Information
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	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Illinois Institute of Technology	Ph.D.	1997	Aerospace Engineering
University of Illinois Urbana	M.S.	1992	Mechanical Engineering
University of Arizona	B.S.	1989	Mechanical Engineering

A. POSITIONS:

- Vice President for Planning and Information Technology and CIO, New Mexico State University
- Chief Technology Officer, Illinois Institute of Technology
- Director, Computing and Network Services, IIT
- Assistant Dean for Computing & Research Assistant Professor, IIT

B. HONORS:

- High Tech Consortium of Southern New Mexico Service Award
- New Mexico Internet Professionals Association Service Award
- New Mexico Business Weekly Innovator of the Year
- Arizona Regent's Scholar
- Tau Beta Pi
- Mortar Board

C. LECTURES:

- "IT Planning 101: Bringing Together Leaders to Produce Results", SunGard Summit, Las Vegas, NV, March 2007.
- "Building New Mexico's Public Fiber Network Under the Radar, Educause StateNets, Phoenix, AZ, January 2007.
- "Commissioning a Reformation of Higher Education", Chronicle Technology Forum, Las Vegas, NV, November 2006.
- "Just Don't Call it Banner. NMSU's Integrated ERP Project", Educause, Dallas, TX, October 2006.
- "Building New Mexico's Public Fiber Network Under the Radar, Educause (poster session), Dallas, TX, October 2006.
- "The New Mexico State University Unified Digital Campus", web seminar for SunGard Higher Education, May 2006.
- "Unbridling Kentucky: Internet2 as a Catalyst and New Mexico's Public Fiber Network, Internet2 Spring Member Meeting, Arlington, VA, April 2006.
- "Just Don't Call it Banner. NMSU's UDC." SunGard Higher Education Summit, Orlando, FL, April 2006.
- "Perspectives from a CIO: Question and Answer", University of Texas-El Paso, El Paso, TX, April 2006.

- "Building New Mexico's Public Fiber Network Under the Radar, Educause Southwest Regional, Austin, TX, February 2006.
- "Governor's Summit on Telecommunications Infrastructure", Panelist, Las Cruces, NM, January 2005.
- "Supporting Academics, Scholarship and Research through Information Technology", Asociacion, Nacional de Instituciones de Educación en Informática, A.C., Ciudad Juarez, Chihuahua, June 2004.
- "Beyond the Bake Sale: Ideas for Controlling Costs and Increasing Revenues", February 2004.
- "What Can NMSU Offer the High Tech Community?", High Tech Consortium of Southern New Mexico, July 2003.
- "CIO Roundtable Discussion on Collaboration in Information Technology," Illinois Technology Showcase, Chicago, IL, November 2001.
- "Collaborating Across Professional Boundaries: Education to Practice" (moderator for session), Interprofessionalism Conference, Chicago, IL, November 2000.
- "Are We Ready for Cyberschool" (moderator for session), ICCA Annual Conference, Chicago, IL, March 1999.
- "Technology and Change in the Workplace," Chicago Chapter of Executive Women International Dinner and Meeting, Chicago, IL, February 1999.
- "Web-based Laboratories in Undergraduate Education," IIT Office of Institutional Advancement Department Seminar, Chicago, IL, June 1998.

D. CAREER SUMMARY:

Dr. Hites is Vice President for Planning and IT/CIO at New Mexico State University in Las Cruces, New Mexico and CEO of HitesTech LLC. He leads strategic planning for NMSU's five-campus, land-grant system of 27,000 students and is responsible for system IT policy, information services, telephone and data networks, application development, training, system administration, PC services, institutional research, university planning and advising to NMSU leadership. NMSU actively partners with the New Mexico government, and Hites helped design the shared, statewide course management system available to all of NM higher education, which is now a part of the governor's K-20 "cyber academy" initiative. An ERP veteran, Hites directed the implementation of NMSU's Banner/Luminis systems. Hites is active with both I2 and NLR and helped plan the El Paso/Las Cruces NLR POP and the 1-25 fiber network. Hites is on the board of the High Tech Consortium of Southern New Mexico and a member of New Mexico Technology in Education, Educause, SCUP, AIR, CHECS, ASEE, Leadership New Mexico, and the Las Cruces Chamber. He is an avid RV'er and motorcyclist and is waiting for more games to come out for the PS3.

E. ADMINISTRATIVE SUMMARY:

The Vice President for Planning and Information Technology at New Mexico State University:

Is a member of the President's Cabinet and responsible for university-wide strategic planning as well as the offices of Information and Communication Technologies (<http://ict.nmsu.edu>) and Institutional Research, Planning and Outcomes Assessment (<http://irpoa.nmsu.edu>).

Directs the central information technology (IT) and institutional research (IR) staff and works closely with all academic and administrative units. The VPPIT is responsible for academic and administrative technology services, institutional research, and university planning serving NMSU's five-campus system throughout New Mexico.

Serves on the Higher Learning Commission accreditation steering committee, writes reports, strategic plans, financial plans, operating plans, technical reports, grant proposals, scholarly manuscripts and ad hoc reports for senior administration regarding information technology and information services.

Manages the five-campus technology infrastructure and manages the New Mexico higher education network for the New Mexico Council for Higher Education Computing/Communications Services, including Internet2 and National LambdaRail.

Oversees information services for the financial, human resources, student and alumni records at NMSU using SCT Banner and several third-party, integrated systems through a web-based portal. The VPPIT is responsible for cable and satellite television and Internet courses, faculty training, classroom technology and online technology infrastructure with Blackboard.

Works directly with faculty and research centers to write grants, participate in faculty research and teach project-based courses. Involvement in faculty research varies between research centers, but includes infrastructure support, programming, project management, grant writing, letters of support, cost sharing and system administration.

Collects and distributes statistical data and information for and about the university, serves as the primary informational interface between NMSU and external organizations, provides leadership for collaborative strategic and operational planning throughout NMSU.

Leads fundraising activities related to information technology.

F. NATIONAL/INTERNATIONAL ORGANIZATIONS:

- Educause (Primary Institutional Representative).
- Society for College and University Planning (Primary Institutional Representative).
- Association for Institutional Research.
- NM Council for Higher Education Computing/Communication Service (President 2004).
- North Suburban Higher Education Consortium (Steering Committee 2000-2003).
- American Society of Engineering Education.
- American Society of Mechanical Engineers.
- Aggie Athletic Foundation (Aggie Scholarship Association).

Antonio Redondo

Address: Theoretical Division
Los Alamos National Laboratory
Mail Stop B210
Los Alamos, New Mexico 87545

Telephones: (505) 667-4401 (office)
(505) 665-4055 (fax)

E-mail: redondo@lanl.gov

Education: Ph.D., California Institute of Technology, 1977.
Major: Applied Physics.
Minor: Theoretical Chemistry.
Thesis: Theoretical Studies of Silicon Surfaces Using Finite Clusters.
Supervisors: Thomas C. McGill (Applied Physics) and
William A. Goddard III (Chemistry).

M.Sc., California Institute of Technology, 1972.
Major: Applied Physics.

B.Sc. (*magna cum laude*), Utah State University, 1971.
Major: Physics.
Minor: Mathematics.

Current Research Interests:

Modeling of cell signaling processes
Modeling of soft matter and biomaterials properties
Modeling host-pathogen interactions
Theoretical methods for signal analysis.
Theoretical catalysis.

Professional Experience:

1977-79 Assistant Professor of Physics, Universidad de Los Andes, Mérida, Venezuela.
1979-80 Associate Professor of Physics, Universidad de Los Andes, Mérida, Venezuela.
1980-81 Visiting Associate in Chemistry, California Institute of Technology.
1981-83 Research Associate in Chemistry, California Institute of Technology.
1983-94 Technical Staff Member, Electronics and Electrochemical Materials and Devices Group, Los Alamos National Laboratory.
1994-2005 Group Leader, Theoretical Chemistry and Molecular Physics Group, Los

Alamos National Laboratory.
2002- Adjunct Professor, Computational Science Research Center, San Diego State University
2008-2006 Group Leader, Theoretical Biology and Biophysics, Los Alamos National Laboratory.
2006- Theoretical Division Leader (Acting), Los Alamos National Laboratory.

Honors and Awards:

Woodrow Wilson Foundation Graduate Fellow, California Institute of Technology, 1972.

IBM Graduate Fellow, California Institute of Technology, 1974-76.

Award for Technical Accomplishment, Partnership for a New Generation of Vehicles (presented by Vice-president Al Gore at the White House, 31 March 1997).

Los Alamos Achievement Award, Los Alamos National Laboratory 1997.

Medalla Bicentennial, Universidad de Los Andes, Mérida, Venezuela, 28 November 1998 (this is the highest medal that the University confers for technical achievement; awarded by the Rector of the University in a special ceremony)

Fellow, World Technology Network (www.wtn.net), 1999

Sandia National Laboratories Achievement Award, 2003

Los Alamos Achievement Award, Los Alamos National Laboratory, January 2008

Los Alamos Achievement Award, Los Alamos National Laboratory, December 2005

Fellow, American Association for the Advancement of Science, 2008

Publications and Patents:

Over 105 articles in refereed journals and book chapters, 2 patents.

Professional Societies:

American Physical Society
American Chemical Society
American Association for the Advancement of Science

MARY ANN SCOTT

CENTER FOR TELEHEALTH, HEALTH SCIENCES CENTER
UNIVERSITY OF NEW MEXICO
ALBUQUERQUE, NM 87131
OFFICE: 505-272-8055 - CELL: 469-879-5799

S U M M A R Y

Senior business development, project management and training professional with extensive expertise in delivering creative solutions for technically diverse and complex areas. Established reputation for building partnerships (alliances) among governmental agencies/officials, academia, industry, and Native American Nations to meet shared goals. High energy, team player able to communicate and foster collaboration with a wide variety of stakeholders.

P R O F E S S I O N A L E X P E R I E N C E

UNIVERSITY OF NEW MEXICO (UNM)
HEALTH SCIENCES CENTER (HSC)

2006-PRESENT

Associate Director. Center for Telehealth and Cybermedicine Research

Responsible for the day-to-day business activities of the Center for Telehealth (CfTH)

- ◆ Provided strategic oversight to CfTH in the reorganization process, including hiring and training of a new services manager and new administrative assistant, and implementation of effective technical services.
- ◆ Supervised budget preparation and planning of funding presentations to UNM HSC management and legislative representatives at the State and Federal level, raising the public awareness of the services provided by the Center and thus increasing capacity for future funding of new programs.
- ◆ Secured partnerships for CfTH with Los Alamos National Laboratory (LANL), Sandia National Laboratories (SNL) and Indian Health Service (IHS) to collaborate on grant proposals such as Post Traumatic Stress Disorder (PTSD) and FCC Internet Two (I2) / National Lambda Rail (NLR).
- ◆ Directed the collaboration of a multi-billion dollar team to submit a \$25 M proposal to FCC; facilitated interaction between various State agencies of NM, AZ, CO, and Hawaii with two Federal laboratories and multiple divisions of UNM, putting in place teaming strategies and organizational methodologies.
- ◆ Developed the concept of a PTSD proposal of \$16M for UNM HSC and the Governor of New Mexico.
- ◆ Supported the Medical Director in the expansion of clinical telemedicine services such as cancer, stroke, geriatrics, pediatric sub-specialty services, pediatric orthopedics, trauma triage/neurosurgery, disaster and emergency response network, translator services, programs for the Deaf, and expanded ECHO Model.
- ◆ Expanded services provided by UNM HSC to Navajo Area Indian Health Service, including trauma care, to support radiology and emergency services at Gallup, Shiprock, Chinle, Crownpoint, and Ft. Defiance.
- ◆ Collaborated with statewide consortiums to develop plans and procedures for coordinated delivery of telehealth services in New Mexico, particularly to underserved populations.
- ◆ Served as official Scribe for the Strategic Telehealth Advisory Council and Four Corners Consortium.
- ◆ Worked closely with senior faculty members, health care professionals, and administrators to define current and emerging trends in the delivery of healthcare and the required policy to support new programs across multiple schools of UNM, including Pharmacy, Nursing, and Continuing Education.
- ◆ Planned, developed, and implemented revenue-generating training programs for CfTH.
- ◆ Designed marketing and promotional telehealth materials, including pins, shirts, and web-based programs.
- 4 Supervised \$125 K improvement of physical facilities such as roof, stucco, paint, fence and handicap ramp.

M SCOTT, INC. Dallas, TX

2003 – 2006

President and CEO

Small woman-owned business specializing in security, scientific engineering, and emerging technologies

- ◆ Provided business development, project management, proposal review, and security expertise relative to Architectural/Engineering projects for the Department of Energy for DMJM H&N / AE Com, ARES Corporation, Burns and Roe Federal Services Division.
- ◆ Directed Architectural and Engineering (AE) business development activities for Burns and Roe Federal Services Division (BRED) as Client Services Manager (CSM) at Los Alamos National Laboratory (LANL).
- ◆ Identified key resources to build a small-business team of technical security experts required to respond to the \$125 million Nuclear Materials Safeguards and Security Upgrades Proposal (NMSSUP) for DoE.
- ◆ Secured technical opportunities for M Scott, Inc. (MSI) at the Waste Isolation Pilot Plant (WIPP), BWXT Pantex, Sandia National Laboratories (SNL), LANL, Nevada Test Site and Yucca Mountain.

- ◆ Facilitated industrial-academic-governmental partnerships between The Center for Integrated NanoTechnology (CINT) at SNL and LANL with Texas Instruments, Exxon Mobil, University of Texas at Arlington, and UT Southwestern Medical School resulting in multi-million dollar grants and projects.
- ◆ Conducted US Homeland Security training classes (Biannual Strategy Implementation Reporting System) for state/local officials funded by the Office for Domestic Preparedness through Texas A&M University.
- ◆ Provided telemedicine and eCommerce consulting services for Kelly Anderson and Associates to obtain economic development opportunities in the field of telehealth for Native American Tribes.
- ◆ Integrated diverse teams for Carter and Burgess in response to The Bureau of Land Management to assist The Navajo Nation in determining the value of its land and subsequent revenue stream.

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION (SAIC), San Diego, CA 2000-2002

Project Manager (Navajo Area Office (NAO), United States Indian Health Service (IHS), Window Rock, AZ)

Responsible for the day-to-day operations of SAIC and its subcontractors who implemented information technology to three hospitals and twelve clinics across the Arizona and New Mexico Navajo Region. This infrastructure provided the latest e-health technology to remote areas.

- ◆ Staffed and managed projects ranging from \$50 thousand to over \$22 million in value for The Department of Health and Human Services, the world's largest public health organization.
- ◆ Guaranteed that money was appropriately allocated and tasks were proceeding in an efficient manner, holding vendors and contractors to a high standard of accountability.
- ◆ Ensured multiple stakeholder satisfaction of government, business, and public health providers, including hospital administrators, technical directors, physicians, nurses, and support staff.
- ◆ Interviewed, hired, and trained culturally diverse employees to become excellent staff members.

THE UNIVERSITY OF TEXAS AT DALLAS SCHOOL OF MANAGEMENT, Dallas, TX 2000

Independent Contractor

Supported the Dean and his staff in the development of an eCommerce Center.

- ◆ Assessed department-head needs, planned strategic goals/objectives and supported instructional priorities for implementation of the eCenter.
- ◆ Mentored teaching assistants with research guidance, evaluation of programs, and publication of materials.
- ◆ Identified viable industrial funding sources, such as 21st Century Group, Fujitsu, Haynes and Boone, Kerr McGee and Travelocity.

THE DELAWARE TRIBE OF WESTERN OKLAHOMA, Anadarka, OK 1999-2000

e-Health Consultant

Pursued telemedicine/telehealth opportunities with the Deans of educational institutions such as The University of Texas Southwestern Medical School at Dallas, The University of North Texas Health Science Center, Texas Tech University, and The University of New Mexico.

- ◆ Wrote grants to secure funding for educational projects to narrow the digital divide for diverse populations.
- ◆ Provided appropriate briefing to prepare legislation on The Government Computerized Patient Record - a federal form of electronic medical patient record used by The Department of Defense, Veteran's Affairs, and Indian Health Service.

LOS ALAMOS NATIONAL LABORATORY (LANL), Los Alamos, NM 1993-1999

Project Manager, Advanced Computing Laboratory

Created partnerships with industry in the field of healthcare

- ◆ Secured funding from NITA Department of Commerce to transfer LANL telemedicine technology to neighboring Northern New Mexico. An award of \$1,539,400 was given to NNM Community College to transfer telemedicine technology from LANL to seventeen rural clinics in the primarily Hispanic and Native American Communities.
- ◆ Supported scientists in the development of cutting-edge public health technology.
- ◆ Made presentations to pharmaceutical conventions and healthcare forums for new industry standards.
- ◆ Worked on international Nonproliferation program with Russia to secure biological weapons.

Technical Marketing Consultant, Earth and Environmental Science Division

Facilitated high-level visits from potential corporate investors in the advanced computational programs.

- ◆ Promoted LANL information technology to Fortune 500 companies such as ExxonMobil, Phillips and Halliburton, allowing The Lab to transfer cutting-edge technology to unique business applications.
- ◆ Created partnerships at the Board of Director Level with SMU, CalTex Petroleum, and Monsanto.

U. S. DEPARTMENT OF DEFENSE HEALTH AFFAIRS, Washington, D. C.

1997

Northrop Grumman Sub Contractor

Developed partnerships between the Department of Defense Health Affairs (DoD HA) and companies such as Motorola, AT&T and Novartis Pharmaceutical to develop high-tech pilot projects.

- ◆ Invited to serve on The White House Subcommittee for Telemedicine to review the legal issues relative to the delivery of electronic health care across state lines and the compliance of state licensing issues.
- ◆ Supported DoD HA military staff in the selection of new products and the implementation phase of clinical trials in a government laboratory.
- ◆ Prepared briefings for Senators' staff regarding pending funding and legislation.

INDEPENDENT CONTRACTOR, Dallas, TX

1986-1993

Program Director - Southern Methodist University, Fujitsu Corporation, NEC, Hitachi, Sanwa Bank

Planned and implemented a program for American and Japanese business executives to share an educational opportunity that would enhance each other's understanding of the best way to implement business strategy and maintain long-lasting relationships.

- ◆ Invited by the Chairman of Fujitsu to be their private advisor for five years.
- ◆ Scrutinized study projects, resolved problems, and determined appropriate expectations, goals, and deadlines for projects which included the University of Texas at Austin, Texas A&M University, as well as kindergarten through twelfth grade classes in the State of Texas.
- ◆ Guided Japanese students in the advancement of educational skills required for success in the U.S.

JAPAN AMERICA SOCIETY OF DALLAS-FORT WORTH, Dallas, TX

1982-1992

Volunteer - Founded The International Youth Festival

- ◆ Created the mission of the Youth Festival, which made the statement that students do not have to speak the same language in order to communicate - communication can be done through the arts.
- ◆ Increased participation from the first performance, which was held in Caruth Auditorium at SMU with only thirteen children to events throughout the metroplex with over eighty students of all backgrounds.

P R E V I O U S E X P E R I E N C E

M SCOTT FINE ARTS, Dallas, TX

Owner

Established an international art business

- ◆ Launched a part-time business from the yellow pages that generated \$100,000 plus per year.
- ◆ Expanded to multi-million dollar sales in international business with global distribution.
- ◆ Served as a resource for some of Texas's largest and most prestigious companies including Neiman Marcus.
- ◆ Specialized in Japanese and Hispanic Art and placed major pieces in local museums and corporate collections, including the Meadows Museum at Southern Methodist University.

PROFESSIONAL MUSICIAN, New York, NY

Pianist, Composer, and Teacher

Studied piano with Kyriena Siloti, the only living relative of Rachmaninoff. Learned international business from observations of Ms. Siloti as agent for the United States Defense Department and liaison for defecting Russians.

- ◆ Performed in chamber music ensembles as well as solo concerts.
- ◆ Published piano-teaching compositions and coached piano students of all ages.

SOUTHERN METHODIST UNIVERSITY, Dallas, TX**Adjunct Professor**

Developed a new department into a financially profitable venture. Directed public communications

DALLAS INDEPENDENT SCHOOL DISTRICT, Dallas, TX**Music Teacher**

Taught K-12 at-risk students and received the Letot Award for Community Service.

E D U C A T I O N

Post-graduate **Study**, Kyriena Siloti, *The Julliard School*, New York, NY

International Defense Program - Russia/United States Scientist Exchange Program

Master **of Music**, Piano, *Southern Methodist University*, Dallas, TX

Designated the Outstanding Female Student

Bachelor **of Music**, Piano, *Southern Methodist University*, Dallas, TX

Bachelor **of Music**, Education, *Southern Methodist University*, Dallas, TX

P U B L I C A T I O N S

- ◆ *Entrance of the Khan*, piano solo, Schmitt, Hall and McCreary Company
- ◆ *Checkin' the Line*, piano solo, Carl Fischer Publisher
- *Wagons West*, piano solo, Carl Fischer Publisher

L I C E N S E / C L E A R A N C E

- ◆ Texas Real Estate License, nine years
- ◆ Department of Energy "L" Security Clearance, three years
- ◆ Texas AI-level teaching certificate for life
- ◆ New Mexico Teaching Certificate K-12

A S S O C I A T I O N S

- ◆ Dallas-Ft. Worth Health Industry Council
- ◆ Japan-America Society of Dallas-Ft. Worth, Vice President
- ◆ Society of Petroleum Engineers
- ◆ Saint Chad's Episcopal Church
- ◆ American Telemedicine Association

NAME Moira G. Gerety	POSITION TITLE Director, Information Technology Services –
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	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of New Mexico, Albuquerque, NM	BUS	1979	University Studies
University of New Mexico, Albuquerque, NM	MBA	1985	Information Systems

A. POSITIONS:

2004-Present: Director, University of New Mexico, Information Technology Services – Computing Services.

2003-2004: Chief Information Officer, State of New Mexico.

2000-2002: Director, Public Service Company of New Mexico, Corporate Information Services.

1997-2000: Manager, Sunsoft Corporation, Information Services.

1994-1997: Adjunct Professor, University of New Mexico, Anderson Schools of Management

B. HONORS:

Tinker Foundation recipient for IT Research in Colombia, 1982.

C. LECTURES:

1999 Y2K, University of New Mexico, Anderson School of Management: PRESENTATION.

2006 Information Technology Governance Address to Navajo Tech Administration, University of New Mexico: PRESENTATION.

D. CAREER SUMMARY:

Teaching mathematics at a secondary school as a bi-lingual multi-cultural teacher was my first career path. From here my career eventually evolved into Information Technology Management. I started interning in this profession at Sandia National Labs, working on asset management and procurement systems for the Department of Energy. My next position was at Digital Equipment Corporation where I worked as a Network Engineer and early office automation, including email and word processing. Next, at Wolf & Associates Consulting, I specialized in strategic planning and materials management, primarily for government utilities and manufacturing. Eventually, I returned to Digital Equipment Corporation to work on an early Enterprise Resource Planning (ERP) and Materials Resource Planning (MRP) environment; first, building a reporting

environment for business forecasting, then managing the master scheduling group that controlled the appropriate product schedules to best utilize staff, materials and machine capacity. As an Independent Consultant, I specialized in strategic planning, IT assessments, and ERP planning and implementations. At Sunsoft, I managed the Information Technology department and led the implementation of Oracle financials and distribution, as well as leading y2k readiness. At Public Service Company of New Mexico (PNM) I assumed the responsibilities for managing the company's IT unit of a shared services organization attempting to centralize or consolidate common IT services. At the State of New Mexico I became its Chief Information Officer and was responsible for the strategic plan for Information Technology in New Mexico, where a collaborative development process established a plan, which continues to guide the state to this date; implemented portfolio management to oversee more than \$100M in IT projects; launched Governor Richardson's Wire New Mexico program, which established a vision of "all purpose" communications infrastructure that can be leveraged for all state operational traffic, and support state programs such as Telehealth, Distance Education and Network Intensive Research. A present, I serve as the Director of Information Technology Computing Services for the University of New Mexico transitioning the IT department to a post mainframe, distributed computing environment, as part of an overall administrative consolidation; building partnerships between Higher Education networks and state, city, county, and tribal network investments. The university network expertise is being leveraged through our partnerships to continue to bring internet services to all of New Mexico.

E. ADMINISTRATIVE SUMMARY:

As Director of Information Technology Computing Services for the University of New Mexico, I manage a staff of 180, with an additional 30 students, with an operating budget of \$19M and project budgets of up to \$62M. As Chief Information Officer for the State of New Mexico, I managed a staff of 10 to oversee all executive branches of IT spending of over \$180M in the state; oversaw all telecommunication contracts. At Public Service Company of New Mexico, I managed a staff of 165 and a budget of \$15M recurring and up to 6M capital projects, including voice and data communications. **My** administrative summary totals 9 years in telecommunications management and over 10 years experience in large scale capital project management and oversight.

F. NATIONAL/INTERNATIONAL ORGANIZATIONS:

2003 to Present; EDUCAUSE Consortium.
2006 to Present: Information Systems Advisory Board; Albuquerque Public Schools.
2006 to Present; City of Albuquerque, Information Services Division.
1998 to Present; CIONET.
2003-2004; National Association of State CIO.
1987-1994; American Production & Inventory Control Society.
2006 to Present; Internet to the Hogan.
2007 to Present; Higher Education Task Force for Information Technology.
2003-2004; State of New Mexico Information Technology Commission.

Mr Gregory Lawrence Blackwell
Technology Manager
UNM/HSC Center for Telemedicine

1005 Columbia NE
Albuquerque, NM 87104
(505) 220-8442
(505) 272-4205
GBlackwell@salud.unm.edu

Education

BS Electronics and Electrical Engineering
Sep-1985 to Jun-1990 University of New Mexico Albuquerque, NM
Concentration on Communications Systems

Polycom CVE – Certified Video Teleconferencing Engineer

CCNA Certificate
May-2003 to Dec-2004 Cisco Networking Academy Albuquerque, NM

Work Experience

Technology Manager – UNM HSC Center for Telemedicine
July 2006 to present

Network Analyst

Nov-2004 to July 2006 UNM/HSC Center for Telemedicine Albuquerque

- Responsible for the design and implementation of a Polycom MCG-50 bridge.
- Involved coordination with HSLIC and CfTH to evaluate manufactures and define design parameters.
- Evaluated needs of project ECHO, CfTH and HSLIC including integration with Microsoft Live Communicator
 - Coordinate software installation with main campus, DOH, NMCD, SBIRT and VA hospital to enable cross linking of bridges and gatekeepers.
 - Responsible for the Design and Implementation of project ECHO's telemedicine clinic including a Polycom VSX 7000, Visual Concert, Plasma Display, Projector and sound system.
- Responsible for collaborating with rural clinics to obtain IP (H.323) conferencing capabilities typically in coordination with NMTHA routed through CHECsNet. .
- Coordinated w/ UNMHSC networking to utilize a VPN connection for each client install in compliance with HIPAA

Act as technical advisor to all project ECHO staff

Systems Engineer/Project Manager

Oct-2003 to Nov-2004 Integrated Controls Albuquerque, NM

Responsible for design, engineering and project management of a variety of Communication, Video, Media Distribution, Voice and Health Care Management Systems. I am also the Network Manager for a small office of 171 nodes.

Major Projects:

Los Alamos and Sandia National Labs Fire System Central Monitoring

- Designed and engineered each Central Monitoring facility such that each system was UL1981 certified.
- The design included redundant servers, RAID 5, receivers, communications and power with automatic failover using ABS Phoenix Software.
- Created acceptance testing procedures for UL 1981 certification.
- Created monthly, bi-annual, and annual maintenance and testing procedures necessary to maintain the UL 1981 certification.
- Created a wireless network using AES transceivers for secondary communications and as a primary in remote locations.
- Farmington Municipal School District Digital Video Servers and Media Distribution System
- Designed, engineered and project managed a district wide Digital Video Server network with DX7100 servers and 200 NTSC video cameras.
- 25 servers communicated with the Farmington School District central office via T1 lines.
- Communications with a monitoring company and Farmington Police Dispatch were also established.
- Alarms generated by Video Motion Detection could be viewed by dispatchers as well as officers in the field using their squad car laptops.
- Dukane media distribution servers utilized existing CATV and Cisco IPTV to create a library of instructional media available to teachers at the click of a mouse.
- Integrated Controls ISO 9001 Quality Assurance Program
- As part of an effort to obtain an ISO 9001 certification, I evaluated, reorganized and created standards for how all maintenance contracts are managed.
- Integrated new procedures with existing company procedures to reduce waste and create an easy integration.
- Created procedures for each testing and maintenance for 15 different types of control systems that Integrated Controls currently supports.
- William Field Services Remote Video Controls System
- Designed, engineered and project managed a remote video control system to control pan/tilt/zoom cameras, matrix switchers, digital video servers at 8 compressor stations scattered through out NW New Mexico.
- Utilized H.263 CODEC transceivers using T1 lines all communicating back to operation headquarters in Bloomfield, NM.

- Equipment at each was designed to meet explosion proof standards of a natural gas compressor station.
- Northern Navajo Medical Center Access Control and Patient Tracking System
- Designed an integrated access control, infant abduction, digital video storage, patient tracking ID credential system.
- Designed systems to comply with HIPPA regulations.

Systems Engineer

May-1995 to Feb-2003 SCI Inc. Albuquerque

- -Technical Design of all systems.
- -Evaluating new products and technology.
- -Proposal Writing.
- -Analyzing ways to reduce the customers TCO and increase ROI.
- -Creating drafting standards.
- -Producing detailed design schematics.
- -Training of technical staff on all new products.
- -Coordinate with customers IT managers to integrate electronic security into the IT infrastructure.
- -Create relations with and evaluate subcontractors for use in implementing systems.
- -Participated in the New Mexico Technology showcase, marketing electronic security to IT managers.
- -SCI's in house network manager.
- In November of 1999, I participated in the creation of standards for the Hewlett Packard company and Agilent Technologies, to be used through North America for field office transition into two separate companies. By the close of 2000, I designed, coordinated, and managed the successful installation of 28 of these sites from Honolulu to Manhattan at costs ranging from \$42K to \$88K, constituting a total of 1.8M in a 12 month period. Our integration team met every installation move deadline for the time-critical projects and was under budget.
- Each system integrated Lenel access control, DSC alarms, analog and digital video, and telephony. All controlled through a regional server running SQL, replicating with local databases. For each project I created a complete set of detailed point-to-point drawings and coordinated with local subcontractors for a successful installation. I personally traveled to each site for commissioning of each system.

Systems Engineer

Oct-2000 to Apr-2001 ISR Fremont, CA

I participated in the design and implementation of a very high end security system for a company called Relera. This system included redundant enterprise servers located in Denver and regional servers located around the country. I managed the configuration of each server and commissioned the implementation at each site.

Each site also had its own Digital Video Server which would record up to 200 cameras onto 2.0TB raid 5 hard drives. Both types of server were managed and replicated back to the enterprise server located in Denver.

Project Engineer

Aug-1990 to Mar-1995 Goodrich Aerospace Albuquerque

I started my engineering career on the Aeroassist Flight Experiment for NASA. I designed, built and implemented test equipment for the onboard command and telemetry units. These systems involved discrete analog and digital design as well as systems integration.

As Project Engineer, I was responsible for the production, testing, and delivery of telemetry systems for the Trident II missile defense system. I was responsible for the delivery of 5 million dollars of equipment per year. I was also responsible for the redesign of systems hardware due to component end of life, which involved a detailed knowledge of PCM technology and discrete electronics design. I also had the opportunity to be part of a design team that created a new piece of flight hardware for the Trident II system. This unit went from design to delivery in 3 months and gave me the experience of seeing a product from concept phase all the way to production and delivery.

Certificates

CCNA
Network +
SoftwareHouse
Lenel Systems
Nice Systems

Technical Skills

Polycom MGC-50 design and programming. Polycom VSX, FX and PVX design and programming
H.323, H.320 and SIP protocols.
Microsoft Office, AutoCad, Visio, Internet Tools, CSI Master Spec, Network Administration and TCP/IP protocols.

NAME Elizabeth A. Krupinski, Ph.D.	POSITION TITLE Research Professor Radiology & Psychology Associate Director Evaluation Arizona Telemedicine Prog.
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INSTITUTION AND LOCATION	DEGREE	YEAR CONFERRED	FIELD OF STUDY
Cornell University, Ithaca, NY	B.A.	1984	Exptl. Psychology
Montclair State College, Upper Montclair, NJ	M.A.	1987	General Psychology
Temple University Philadelphia, PA	Ph.D.	1992	Exptl. Psychology

Professional Positions

1987-1992	Research Specialist, Department of Radiology, Univ of Pennsylvania
1988-1992	Instructor, Department of Psychology, Temple University
1992-1997	Research Assistant Professor, Depts Radiology & Psychology, Univ of Arizona
1996-present	Associate Director of Evaluation & Assessment, Arizona Telemedicine Program
1997-2003	Research Associate Professor, Depts Radiology & Psychology, Univ of Arizona
2003 – present	Research Professor, Depts Radiology & Psychology, Univ of Arizona

Awards & Honors

1. Most Outstanding Graduate Student-Arts & Sciences-Montclair State College, 1988.
2. Most Outstanding Graduate Student-Psychology-Montclair State College, 1988.
3. RSNA Certificate of Merit Award - RSNA 1996, 1998
4. Executive Council Award of the American Roentgen Ray Society 1996 (co-author)
5. Herbert M. Stauffer Award (Association of University Radiologists) - Outstanding Paper in Academic Radiology 1997
6. SPIE Medical Imaging (Perception & Performance) Honorable Mention Award - 1999, 2003, 2005
7. RSNA Resident Research Award (co-author) - 1997, 1998
8. Radiology Editor's Recognition Award for reviewing with Distinction - 1998, 1999
9. President Medical Image Perception Society - 1997 - present
10. American Association for Women Radiologists 2005 Research & Education Foundation Professional Leadership Award to attend the Association of American Medical Colleges Mid-Career Women Faculty Professional Development Seminar
11. Successes & Failures in Telehealth 4th International Conference Best Paper Award (session 2) 2004
12. Vice President American Telemedicine Association - 2006 - 2007
13. President Elect American Telemedicine Association - 2007 - 2008

Relevant Telemedicine & Observer Evaluation Publications (selected)

- (1) Weinstein RS, Bloom KJ, Krupinski EA, Rozek LS. (1992). Human performance studies of the video microscopy component of a dynamic telepathology system. Zentralblatt Fur Patholoaei, 138, 399-401.
- (2) Krupinski EA, Weinstein RS, Bloom, KJ, Rozek LS. (1993). Progress in telepathology: system implementation and testing. In RS Weinstein (Ed). Advances in Patholoav & Laboratory Medicine, Vol 6; St. Louis : Mosby; pp. 63-87.
- (3) Krupinski EA, Alsafadi Y. (1994). Lossy network transmission: influence on the detection of microcalcification clusters in mammograms. Academic Radioloav, 1, 333-338.
- (4) Yu YP, Martinez R, Krupinski E, Weinstein R. (1994). Analysis of JPEG compression on communications in a telepathology system. SPIE Medical Imaging, 2165, 283-294.
- (5) Krupinski EA, Weinstein RS, Rozek LS. (1996). Experience-related differences in diagnosing medical images displayed on monitors. Telemedicine Journal, 2, 101-108.
- (6) Dunn BE, Almagro UA, Choi H, Sheth NK, Arnold JS, Recla DL, Krupinski EA, Graham AR, Weinstein RS. (1997). Dynamic-robotic telepathology : Department of Veterans Affairs feasibility study. Human Patholoav, 28, 8-12.
- (7) Halliday BE, Bhattacharyya AK, Graham AR, Davis JR, Leavitt SA, Nagle RB, McLaughlin WJ, Rivas RA, Martinez R, Krupinski EA, Weinstein RS. (1997). Diagnostic accuracy of an international telepathology consultation service. Human Patholoav, 28, 17-21.
- (8) Krupinski EA, Hopper L. (1997). Teleradiology in rural Arizona: user's perspective. SPIE Medical Imaaina, 3035, 350-354.

- (9) Krupinski EA, Maloney K, Hopper L, Weinstein RS. (1997). Evaluation of radiologist performance using telemedicine services. J of Digital Imaging. **10**, 83-85.
- (10) Krupinski EA. (1999). Teleradiology satisfaction. Advance for Administrators in Radiology & Radiation Oncology. **9**, 50-52.
- (11) Krupinski EA, Roehrig H, Furukawa T. (1999). Influence of film and monitor display luminance on observer Performance and visual search. Acad Radiol. **6**, 411-418.
- (12) Johnson JP, Lubin J, Krupinski EA, et al. (1999). Visual discrimination model for digital mammography. Proc SPIE Med Imag. **3663**, 253-263.
- (13) Roehrig H, Krupinski EA. (1999). Image quality of monochrome and color displays for PACS workstations. In: CARS '99 Lemke HU et al (eds). Elsevier Science, The Netherlands, pp. 335-340.
- (14) Krupinski EA, LeSueur B, Ellsworth L, Levine N, et al. (1999). Diagnostic accuracy and image quality using a digital camera for teledermatology. Telemedicine Journal. **5**, 257-263.
- (15) Krupinski EA, McNeill K, Ovitt TW, Alden S, Holcomb M. (1999). Patterns of use and satisfaction with a university-based teleradiology system. J Digital Imaging. **12**, 166-167.
- (16) Krupinski EA, Webster P, Dolliver M, Weinstein RS, Lopez AM. (1999). Efficiency analysis of a multi-specialty telemedicine service. Telemedicine Journal, **5**, 265-271.
- (17) Dunn BE, Choi H, Almagro UA, Recla DL, Krupinski EA, Weinstein RS. (2000). Routine surgical telepathology in the Department of Veterans Affairs: experience-related improvements in pathologist Performance in 2200 cases. Telemedicine Journal, **5**, 323-338.
- (18) Krupinski EA. (2000). The importance of perception research in medical imaging. Radiation Medicine. **18**, 329-334.
- (19) Krupinski EA, Roehrig H. (2000). The influence of a perceptually linearized display on observer performance and visual search. Academic Radiology, **7**, 8-13.
- (20) Krupinski EA. (2000). Practical applications of perceptual research. In: J Beutei, HL Kundel, RL Van Metter (Eds). Handbook of Medical Imaging Vol 1. Physics & Psychophysics. Bellingham, WA; SPIE Press, 895-929.
- (21) Krupinski EA, Gonzales M, Gonzales C, Weinstein RS. (2000). Evaluation of a digital camera for acquiring radiographic images for telemedicine applications. Telemedicine Journal and e-Health. **6**, 297-302.
- (22) Krupinski EA, Roehrig H. (2000). Recent developments in evaluating soft-copy displays for medical images. Recent Research Developments in Optical Engineering. **3**, 35-49.
- (23) Barker G, Krupinski EA, Laursen T, Erps K, Weinstein RS. (2001). Pay per view: the Arizona Telemedicine Program's billing results. Telemedicine J & e-Health. **7**, 287-291.
- (24) Krupinski EA, Barker GP, Beinar S, Lopez AM, Weinstein RS. (2001). Fluctuations in service loads in an established telemedicine program. Telemedicine Journal & E-Health. **7**, 27-31.
- (25) Weinstein RS, Descour MR, Liang C, Bhattacharyya AK, Graham AR, Davis JR, Scott KM, Richter L, Krupinski EA, Szymus J, Kayser K, Dunn BE. (2001). Telepathology overview: from concept to implementation. Human Pathology. **32**:1283-1299.
- (26) Krupinski EA, McNeill KM. (2001). Teleradiology. In DA Miles (Ed). Oral and Maxillofacial Surgery Clinics: Maxillofacial Imaging: Principles and Applications; Philadelphia, PA: WB Saunders; pp.791-806.
- (27) Roehrig H, Krupinski EA, Furukawa T. (2001). Evaluation of a flat CRT monitor for use in radiology. Journal of Digital Imaging. **14**:142-148.
- (28) Krupinski EA, Radvany M, et al. (2001). Enhanced visualization processing: effect on workflow. Acad Radiol. **8**, 1127-1133.
- (29) Krupinski EA, Roehrig H. (2001). Observer performance using monitors with different phosphors – an ROC study. Proc SPIE Med Imaging. **4324**, 18-22.
- (30) Krupinski EA. (2001). The possibility of low-cost telemedicine. Business Briefing: Next Generation Healthcare, CD-ROM Edition, 1-4.
- (31) Krupinski EA. (2002). Medical image perception: influence of monitor quality on observer performance. In: Quality Assurance: Meetina the Challenge in the Daital Medical Enterprise. Reiner BI, Siegel EL, Carrino JA (Eds). Society for Computer Applications in Radiology, Great Falls, VA, pp. 141-153.
- (32) Krupinski E, Barker G, Rodriguez G, Engstrom M, Levine N, Lopez AM, Weinstein RS. (2002). Telemedicine versus in-person dermatology referrals: an analysis of case complexity. Telemedicine J & e-Health. **8**, 143-147.
- (33) Krupinski EA, Nypaver M, Poropatich R, Ellis D, Safwat R, Sapci H. (2002). Clinical applications in telemedicine/telehealth. Telemedicine J & e-Health, **8**, 13-34.
- (34) Krupinski EA. (2002). Clinical applications: present and future. In: RN Strickland (ed) Image Processing Techniques for Tumor Detection: New York, NY: Marcel Dekker, Inc., 47-70.
- (35) Krupinski EA, Roehrig H. (2002). Pulmonary nodule detection and visual search: P45 and P104 monochrome versus color monitor displays. Acad Radiol. **9**:638-645.
- (36) Johnson JP, Krupinski E, Nafzinger J, Lubin J, Wus J, Roehrig H. (2002). Perceptually optimized compression of mammograms. Proc SPIE Medical Imaging. **4686**, 256-262.

- (37) **Krupinski EA**. (2003). The future of image perception in radiology: synergy between humans and computers (Guest Editorial). *Acad Radiol*, 10, 1-3.
- (38) Bluemke DA, **Krupinski EA**, Ovitt T, Gear K, Unger E, Axel L, Boxt LM, Casolo G, Ferrari VA, Funaki B, Globits S, Higgins CB, Julsrud P, Lipton M, Mawson J, Nygren A, Pennell DJ, Stillman A, White RD, Wichter T, Marcus F. (2003). MR imaging of arrhythmogenic right ventricular caudopathy: morphologic findings and interobserver reliability. *Cardiolov*. 99:153-162.
- (39) Baskaran V, Pereles FS, Georganos SA, Shaibani A, Spero KA, **Krupinski EA**, Zhang A, Finn JP. (2003). Myelographic MR imaging of the cervical spine with a 3D true fast imaging with steady-state precision technique: initial experience. *Radiolov* 2003;227:585-592.
- (40) **Krupinski E**, Johnson J, Roehrig H, Lubin J. (2003). Using a human visual system model to optimize soft-copy mammography display: influence of display phosphor. *Acad Radiol*. 10:161-166
- (41) **Krupinski EA**, Berger WG, Dallas WJ, Roehrig H. (2003). Searching for nodules: what features attract attention and influence detection? *Academic Radiology*. 10, 861-868.
- (42) **Krupinski EA**, Johnson J, Roehrig H, Engstrom M, Fan J, Nafziger J, Lubin J, Dallas WJ. (2003). Using a human visual system model to optimize soft-copy mammography display: influence of MTF compensation. *Academic Radiology*. 10, 1030-1035.
- (42) **Krupinski EA**, Lopez AM, Lyman T, Barker G, Weinstein RS. (2004). Continuing education via telemedicine: analysis of reasons for attending or not attending. *Telemedicine Journal and e-Health*. 10, 403-409.
- (43) **Krupinski EA**, Johnson J, Roehrig H, Nafziger J, Fan J, Lubin J. (2004). Use of a human visual system model to predict observer performance with CRT vs LCD display of images. *J Digital Imaging*, 17, 258-263.
- (44) Lopez AM, Avery D, **Krupinski E**, Lazarus S, Weinstein RS. (2005). Increasing access to care via tele-health the Arizona experience. *J Ambulatory Care Management*. 28:16-23.
- (45) Weinstein RS, Descour MR, Liana C, Barker G, Scott KM, Richter L, **Krupinski EA**, Bhattacharyya AK, Davis JR, Graham AR, Rennels M, Russum WC, Goodall JF, Zhou P, Olszak AG, Williams BH, Wyant JC, Bartels PH. (2004). An array microscope for ultrarapid virtual slide processing and telepathology. Design, fabrication, and validation study *Human Patholov*. 35, 1303-1314.
- (46) Barker GP, **Krupinski EA**, McNeely RA, Holcomb MJ, Lopez AM, Weinstein RS. (2005). The Arizona Telemedicine Program business model. *Journal of Telemedicine & Telecare*. 11, 397-402.
- (47) Cruz M, **Krupinski EA**, Lopez AM, Weinstein RS. (2005). A review of the first five years of the University of Arizona telepsychiatry programme. *Journal of Telemedicine & Telecare*. 11, 234-239.
- (48) **Krupinski EA**, Johnson J, Roehrig H, Nafziger J, Lubin J. (2005). On-axis and off-axis viewing of images on CRT displays and LCDs: observer performance and vision model predictions. *Academic Radiology*. 12:957-964.
- (49) **Krupinski EA**, Roehrig H, Dallas W, Fan J. (2005). Differential use of image enhancement techniques by experienced and inexperienced observers. *Journal of Digital Imaging*. 18, 311-315.
- (50) Fan J, Roehrig H, Sundareshan MK, **Krupinski E**, Dallas WJ, Gandhi K. (2005). Evaluation of and compensation for spatial noise of LCDs in medical applications. *Medical Physics*. 32, 578-587.
- (39) **Krupinski EA**. (2005). Visual search of mammographic lesions: influence of lesion subtlety. *Academic Radiology*. 12:965-969.
- (51) Siegel E, **Krupinski E**, Samei E, Flynn M, Andriole K, Erickson B, Thomas J, Badano A, Seibert A, Pisano ED. (2006) Digital mammography image quality: image display. *Journal of the American College of Radiology*. 3:615-627.
- (52) **Krupinski EA**, Lubin J, Roehrig H, Johnson J, Nafziger J. (2006). Using a human visual system model to optimize soft-copy mammography display: influence of veiling glare. *Academic Radiology*, 13:289-295.
- (53) **Krupinski EA**, Tillack AA, Richter L, Henderson JT, Bhattacharyya AK, Scott KM, Graham AR, Descour MR, Davis JR, Weinstein RS. (2006). Eye-movement study and human performance using telepathology virtual slides. Implications for medical education and differences with experience. *Human Pathology*. 37:1543-1556.
- (54) Weinstein RS, Lopez AM, Barker GP, **Krupinski EA**, Descour MR, Scott KM, Richter LC, Beinar S, Holcomb MJ, Bartels PH, McNeely RA, Bhattacharyya AK. (2007). The innovative bundling of teleradiology, telepathology, and teleoncology services. *IBM Systems Journal*, In Press.

Total publications = 201 (17 invited). Total presentations = 294 (231 invited). Both since 1987.

C. Research Support

ACTIVE

1) Eyestrain in radiologists (Krupinski)

04-01-06 – 1-31-09

NIH/NIBIB

Role: PI

The goals of this grant are to objectively measure visual fatigue in radiologists as they read in the digital environment and to measure the effect fatigue has on diagnostic performance.

2) Arizona Telemedicine Program (Weinstein) 01-01-96 –present (ongoing)
 State of Arizona Role: Associate Director of Research
 The goals of this project are to enhance health care delivery to medically-underserved populations throughout the state using telemedicine technologies through education, research and clinical services.

Last 5 Years Grants & Projects

1) Soft copy display for digital mammography (Roehrig) 01/01/00 - 12/31/03

NIH/NCI Role: Psychophysicist.
 The major goals of this project are to develop a user interface for displaying digital mammograms that is perceptually optimized in relation to the radiologist observer so that diagnostic performance is optimized. No overlap.

2) Improving CRT display of digital mammograms (Roehrig) 04/01/00 - 03/31/03

NIH/NCI Role: Psychophysicist.
 3) Optimizing Softcopy Displays for Digital Mammography (Krupinski) 09/01/00 - 08/31/04

NIH/NCI Role: PI, psychophysicist
 The major goals of this project are to enhance and validate a model of human visual system performance that will then be used to systematically explore and optimize design tradeoffs for current and future digital mammography display systems.

4) Arizona Telemedicine Program (Weinstein) 06/01/97 – 05/31/01

Office Rural Health Policy Role: Director Evaluation & Assessment
 The major goals of this program are to provide telemedicine services to sites in AZ. In my role, I conduct feasibility studies, image perception studies, and other related studies pertaining to observer performance and program evaluation. Particularly relevant are studies dealing with teleradiology, telepathology and teledermatology – all of which have crucial image perception components.

5) 8-bit vs 11-bit softcopy display for radiology: diagnostic accuracy and visual search (Krupinski) 02-01-05 – 06-30-06

USAMRMC/TATRC Role: PI
 The goal of this project is to determine if diagnostic accuracy and visual search efficiency are affected by the bit-depth of the display device.

TAG Participant BioSketches

Laura Banks, DVM, MPH

Dr. Banks is Associate Director of the University of New Mexico Center for Disaster Medicine located in Albuquerque. She directs the Critical Response and Emergency Systems Training Program, which has been funded by the federal Bioterrorism Training and Curriculum Development Program since 2003. This program provides emergency preparedness and response training for healthcare and public health professionals in New Mexico and Arizona, using a variety of methods including didactic and skills training and distance learning methods. In addition to project direction, Dr. Banks is a lecturer in the fields of public health, infectious disease, and emergency response. She provides instruction through conference presentations, on-line learning, disaster operations trainings, undergraduate and graduate courses, and telehealth presentations. Dr. Banks is a member of the New Mexico Public Health Emergency Planning and Response Advisory Committee and the New Mexico Education and Training Advisory Committee.

Mark Carroll, MD

Mark Carroll, MD is the Indian Health Service (IHS) Telehealth Program director. Dr. Carroll has served Indian health care in multiple clinical, administrative, and program development capacities since 1992. He has been involved in telehealth projects and activities for many years. He has also supported various IHS initiatives and activities related to telehealth care, information technology, performance improvement/clinical quality, adolescent health, school-based health care, community epidemiology/public health, and health promotion/community wellness program development.

Dr. Carroll received his undergraduate degree from Dartmouth College and his medical school degree from Dartmouth Medical School. He completed general surgical internship training at the Presbyterian-University of Pennsylvania Medical Center, pediatric residency training at the Children's Hospital of Philadelphia, and fellowship training in the Robert Wood Johnson Clinical Scholars Program at Stanford University. He has been the recipient of numerous awards, and has worked in diverse university, private, and public health settings since his post-graduate training.

Michael Belgarde

Mr. Belgarde is the Chief Information Officer (CIO) with current Billet 99HG845 at the Navajo Area Office (NAO) in Window Rock, Arizona. As a CIO for Navajo Area Indian Health Service (NAIHS), he supervises staff at NAO and 6 hospitals, 7-health centers, and 15 health stations providing context and perspective with IHS National 2006-2011 Strategic Plan. The Navajo Nation is the largest Indian tribe in the United States and has the largest reservation, which encompasses more than 25,000 square miles. Mr. Belgarde has provided leadership and direction for NAIHS with initiatives from the Office of

Information Technology (OIT) and Headquarters (HQ). In addition, he has implemented large scale projects from the Annual Acquisition Plan for the IRM/MIS department, NAO and NAIHS some of which include: Electronic Health Record (EHR) Preparation and Implementation, Master Person Index, Vista Imaging Installation in coordination with Division of Biomedical Engineering (OEHE), Integrated Service Router (ISR) Preparation to facilitate encryption and anti virus at wire speed with bandwidth utilization.

Mr. Belgarde is "Basic Readiness" deployable with the OFRD to assist in a disaster situation. He was selected to serve as CIO of the Navajo Area Office (NAO), with a billet increase to O-6 and has successfully completed the Executive Leadership Development Program (ELDP), which is an IHS Nationwide Programs and Initiatives goal for young emerging leaders. Mr. Belgarde has formed Cross Functional Interdisciplinary Teams across Service Units as a Project Officer and the Contracting Officer Technical Representative to facilitate several million dollar projects across Navajo Area IHS for FY07. He has worked closely with the University of Arizona (UofA) at Tucson with the Arizona Telemedicine Program (ATP) to create and facilitate an avenue for IHS to transmit TeleRadiology images to be examined and interpreted for emergencies involving patient care. Along with his IRM/MIS staff, he has completed and complied with Security Risk (RA) Assessments area wide as mandated by HHS and have the Certification and Accreditation (C&A) and Plan of Action and Milestones (POA&M) scheduled for the first quarter of FY07.

Mr. Belgarde has successfully completed the Project Officer (PO), Performance Based Scope of Work (PBSOW), and Acquisitions for Supervisors Training courses to assist with (6) digit procurements for NAIHS. He oversees the constant heavy workload of the office with support and service requests from NAO and the 6 Federal and 2 638 Service Units.

Wesley Old Coyote

Wesley Old Coyote provides Health Care Delivery systems Strategic Planning and Telehealth Infrastructure development support as the Chief Information Officer of the Tucson Area IHS. He most recently served as the Deputy Chief Information Officer (Indian Health Service), supporting a broad range of Digital Information Systems, Administrative and Clinical systems, Electronic Health Record deployment, Telecommunications Infrastructure Development and Integration, Telehealth Infrastructure assessment, Policy Development and Implementation, and Strategic Planning.

Mr. Old Coyote began his IT career in the U.S. Navy operating and supporting the Tomahawk and Harpoon Cruise Missile systems, Tomahawk Afloat Planning systems, Mission Planning systems, Digital Imagery systems, Satellite Communications Systems Management and Cruise Missile Support activities. Mr. Old Coyote joined the Indian Health Service as the Chief Information Officer of the Navajo Area IHS. He has also

worked with the Phoenix Area IHS, where he was the Director of the Information Resource Management. In May 2002, he returned to the Navajo Area IHS, where he continued with the development of the NAIHS Telehealth and Telemedicine network infrastructure. In FY 2003-04, Mr. Old Coyote performed National IHS-wide systems infrastructure assessments in support of the Electronic Health Record (EHR) and Telemedicine systems implementation projects.

Mr. Old Coyote earned his B.S. in Business Administration (MIS major) and recently served on the HHS Enterprise Architecture Review Board, HHS Data Architecture Workgroup, HHS Telecommunications Council, HHS IPv6 Integration Committee and has served on the IHS Information Systems Advisory Council, IHS Information Systems Coordinator Committee, IHS Southwest Telehealth Consortium, Navajo Area Telehealth Committee, Navajo Area IHS 638 negotiations member and Phoenix Area IHS 638 IT advisor. He continues to provide support and technical assistance for Self-Determination contracting discussions in direct support of Tribal Self Governance nationwide.

Mr. Old Coyote is an enrolled member of the Crow Tribe located in south central Montana.

Mike Holcomb

Mike Holcomb is the Associate Director of Network Architecture for the Arizona Telemedicine Program (ATP). He has worked with the program since 1997 and was promoted from Network Manager to his current position as Associate Director in November of 2002.

Mr. Holcomb has played a key role in the development and support of the Arizona Telemedicine Program network, which has grown from a pilot project involving 8 initial rural Arizona locations to a sustainable membership supported program that is continuing to grow and has successfully partnered with and connected with over 60 healthcare organizations throughout the State of Arizona.

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