

NewsLetter

Week of Aug. 18, 2003

Vol. 4, No. 17

Meet the Senior Executive Team

On July 17, G. Peter Nanos became the seventh director of Los Alamos National Laboratory and took on the permanent responsibility of leading the Laboratory, after serving for seven months as interim director. Like his predecessors, Nanos is not alone in making the decisions that will guide the Laboratory and affect its future. Directly assisting him in evaluating and making decisions on a full range of institutional policies and issues is a group of eight managers who serve as deputies and associate Laboratory directors. Together with Nanos, they make up the Laboratory's Senior Executive Team. Reporting to the SET are the Laboratory's division leaders and office directors.

While most employees are keenly aware of who serves as director of the Laboratory at any given time and are familiar with the director of their division, many in the Laboratory work force are not familiar with the team of senior managers who assist the director in the formidable task of running the institution. Some employees know the senior managers by name but can't readily put a face to the name; others are not exactly sure who currently makes up the executive team.

This issue of the newsletter briefly reintroduces each member of the SET, complete with a photo of the manager and a listing of those individuals, divisions and offices that directly report to him or her.

The director, SET and division leaders recently gathered in Santa Fe for a retreat that is part of an effort to advance the director's business and planning objectives. The retreat is a major step forward in what Nanos calls meeting the need to develop a Laboratorywide "corporate outlook." One outcome of the meeting was a broad plan for the Laboratory on which individual division-level business plans can be based. A Web site providing information relevant to the retreat and related issues was set up for divisions leaders, and it continues to be maintained. The Web site is located at <http://int.lanl.gov/projects/planning/> but is restricted to SET members and division leaders, who must use their Z number and CRYPTO card to access it.

More information on the outcome of the retreat will be featured in the newsletter distributed the week of Sept. 1. In the meantime, read on and get to know the Lab's Senior Executive Team.

G. Peter Nanos, Laboratory director

Excellence in all things is the goal Laboratory Director G. Peter Nanos has set for the institution and its people. Nanos was chosen permanent director in July after being tapped by the University of California to be interim director Jan. 6.

In reiterating one of his first statements to the work force, Nanos emphasizes that "The future is in our hands. ... The science at Los Alamos National Laboratory has always been worldclass. ... But to succeed in meeting the challenge we're facing, we have to work as a team."

Summarizing his philosophy for leadership, Nanos noted that it takes not only leadership, but team work, excellence, commitment and dedication.

And it was his "superb performance and extraordinary leadership" according to U.C. President Richard Atkinson that secured Nanos' position as Laboratory director. "Pete has provided bold, innovative and compassionate leadership ... I can think of no person better suited to lead this critical national security laboratory through the coming period and to preserve its standards of excellence," Atkinson added.

Nanos came to the Lab in 2001 as the principal deputy associate director for threat reduction following an impressive career in the U.S. Navy that began at the Naval Academy, where he was Trident Scholar and graduated with a degree in engineering. He also earned a doctorate in physics from Princeton University.

Nanos' naval career encompassed management of the technical development effort for the Navy's high-energy laser program. Later he became deputy director of warfare systems engineering in the Space and Naval Warfare Systems Command.

He also guided completion of the submarine inertial navigation system to support deployment of the Trident II weapons system, and in 1994, he became commander of Strategic System Programs. Immediately before joining Los Alamos, he had oversight for the operations of 10 defense laboratory divisions with more than 20,000 employees.

Nanos recently established the Institutional Planning and Evaluation Office to improve the Laboratory's institutional planning, analysis of corporate strategy and goals, and evaluation and assessment of programmatic performance. This office reports directly to him. He also created the the Director's Policy Office to streamline and consolidate policy functions institutionwide. This office will report to the director's chief of staff, advise senior managers on policy issues and assist all Laboratory organizations with internal policy- and procedure-related matters.



'... to succeed in meeting the challenge we're facing, we have to work as a team.'



Carolyn Mangeng, acting deputy director

Carolyn Mangeng of the Director's (DIR) Office was appointed acting deputy Laboratory director April 7 by then-Interim Laboratory Director G. Peter Nanos.

Mangeng is responsible, with the Laboratory director, for providing overall leadership and management of the Lab. She serves as Laboratory director

'I am delighted to be part of a team and an effort that is dedicated to achieving excellence in all areas ...'

— in programs, in science and technology, in business and in operations."

Mangeng interacts on specific issues with other members of the SET and with elected and executive-level officials at the federal, state and local levels.

in Nanos' absence and is a member of the Senior Executive Team. "I am delighted to be part of a team and an effort that is dedicated to achieving excellence in all areas

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Defense

Transformation

A relatively new term, "Defense Transformation," has been heard

more frequently around the nation and the Laboratory in recent times. For those not following the nuances of military communications, it can seem like a murky concept, but it need not be. Page 4

GRO's Nick Salazar receives Taos recognition

Nick Salazar of the Government Relations Office (GRO) was recognized by the Taos County Board of Commissioners for his hard work, dedication and assistance during the first session of the 2003 State Legislature. Page 6



Take me out to the ballgame



Director G. Peter Nanos is practicing his 30 MeV fast-ball for the first ceremonial pitch of the Sept. 1 Isotopes ball game for Lab Day at Isotopes Park. Join

Laboratory employees and their families for this special occasion developed just for Los Alamos. Page 7

Meet the SET...

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She also interacts with senior management of the University of California on a full range of Laboratory institutional issues.

Mangeng most recently served as associate deputy director for national security and as director of the Laboratory's Office of National Security Planning and Analysis.

Mangeng, who came to the Lab in 1976, had earlier assignments that included deputy program director of Nuclear Weapons Technology and program manager for Nuclear Weapons Concepts. Before joining the Nuclear Weapons program, she was a principal investigator in systems studies.

Her recent awards include a 2003 mentoring and outstanding role-model award by the Women's Diversity Working Group. She has held several volunteer positions, including membership on the Women's Committee in the 1980s, serving on its Child Care Task Force.

Mangeng received a bachelor's degree from Cornell University and a master's degree from Northwestern University.

William Press, deputy science and technology

William Press of the Director's (DIR) Office has been the deputy Laboratory director for science and technology since 1998. Before coming to the Lab, Press was professor of astronomy and physics at Harvard University.

Press has direct responsibility for ensuring the scientific quality of the Laboratory's technical programs and is a member of the Senior Executive Team. He also is personally responsible for the strategic allocation of Laboratory-Directed Research and Development funds, is the senior Laboratory executive for computer and information security, owns institutional initiatives on technical staff recruitment and retention, and oversees the Laboratory's relationship with the University of California's Science and Technology Panel for the Laboratories.

"My commitment is to help all our programs to achieve the very best science and technology in support of our missions. If there are institutional obstacles to our researchers producing their very best work, I need to know about it, and my job is to try to fix it," said Press.

Press is a long-time member and a former chairman of JASON Study Group — a group of professors from 45 universities that evaluates scientific and technical initiatives associated with national defense. He also is a member of Defense Threat Reduction Agency, Threat Reduction Advisory Committee S&T Panel and a member of the Board of the Institute for Defense Analysis.

Press, senior author of the "Numerical Recipes" series of books on scientific computing, has published nearly 150 papers in the areas of astrophysics, cosmology and computational algorithms. He has been elected to the National Academy of Sciences and the American Academy of Arts and Sciences.

Press received his undergraduate degree from Harvard and his master's and doctoral degrees in physics from the California Institute of Technology.

Press is responsible for the following organizations: Chief Information Officer (CIO), Spallation Neutron Science (SNS) Division, and Science and Technology Base (STB) Programs.

'My commitment is to help all our programs to achieve the very best science and technology in support of our missions. ...'



John Immele, deputy, national security

John Immele, deputy director for national security, joined the Director's Office in September 2001. He previously served as program director for nuclear materials management in the Threat Reduction Directorate.

"My main job is to help the Laboratory director and the Senior Executive Team in formulating, developing and reviewing our national security programs. We meet as the Laboratory National Security Council one to two times a month. Similarly, we meet with Lawrence Livermore National Lab twice each year to discuss high-

level issues and future collaborations. I also have had the lead on work-force review, division-by-division reviews of issues and the leadership pipeline. An external Program Management Review Panel was established in January and has begun to take actions to improve our performance and accountability on mission projects," said Immele.

Immele, who holds a doctorate in nuclear chemistry from the University of California, Berkeley, came to Los Alamos in 1989 as director for Conventional Defense Technology Programs. In 1991 he became associate director for Nuclear Weapons Technology Programs, and in that position, he helped craft the science-based stockpile stewardship program.

In 1996, Immele went on assignment to the Department of Energy's Office of Nonproliferation and National Security in Washington, D.C. He returned to Los Alamos in 1998 and joined the TR Directorate.



'My main job is to help the Laboratory director and the Senior Executive Team in formulating, developing and reviewing our national security programs. ...'

Los Alamos NewsLetter

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Los Alamos National Laboratory is operated by the University of California for the National Nuclear Security Administration (NNSA) of the U.S. Department of Energy and works in partnership with NNSA's Sandia and Lawrence Livermore national laboratories to support NNSA in its mission.

Los Alamos enhances global security by ensuring safety and confidence in the U.S. nuclear stockpile, developing technologies to reduce threats from weapons of mass destruction and improving the environmental and nuclear materials legacy of the Cold War. Los Alamos' capabilities assist the nation in addressing energy, environment, infrastructure and biological security problems.



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Meet the SET...

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Richard Marquez, associate director, administration

Richard Marquez has been the associate director for administration since February 2002. Marquez has been responsible for guiding his directorate through massive changes using innovative management approaches while modernizing business practices and striving for a quality work force. "The Laboratory

'The Laboratory has a strong vision and the management support to ensure we remain a world-class scientific institution.'

has a strong vision and the management support to ensure we remain a world-class scientific institution," he said. "I am confident our people will make it happen."

Before joining the Lab, Marquez worked for Burns and Roe Enterprises Inc. and has 18 years experience with the Department of Energy's Albuquerque Operations Office (AOL). Under his leadership, AOL won four consecutive DOE Secretarial awards for socioeconomic objectives in procurement. Marquez has a bachelor's degree in political science from Colorado State University and a law degree from the University of New Mexico.

Marquez's career accomplishments include a number of significant awards and other recognitions, among them the Presidential Rank Award for Meritorious Service, the Hammer Award for Reinventing Government, the President Management Council's "Best Practices" award and DOE's Cultural Diversity award.

His directorate includes Human (HR) Resources, Supply Chain Management (SUP), Chief Financial Officer (CFO), Information Management (IM) and Communications and External Relations (CER) divisions and the Office of Equal Opportunity (OEO) and the Quality Improvement (QIO), Diversity (DVO) and Ombuds Program offices.



Those change of station assignments gave Holt incredible insight into the requirements and needs of two of the Laboratory's key customers.

Holt received his master's in physics and engineering at the University of California, Los Angeles.

Holt has responsibility for the Facility and Waste Operations (FWO) Division; Health, Safety and Radiation Protection (HSR) Division; Internal Security (ISEC); Performance Surety (PS) Division; Project Management (PM) Division; Risk Reduction and Environmental Stewardship (RRES) Division; Security and Safeguards (S) Division; and the Infrastructure, Facilities and Construction (IFC) Office.

Thomas Meyer, associate director, strategic research

Tom Meyer joined Laboratory leadership as associate director for strategic research in January 2000, after a distinguished career as a faculty member and administrator at the University of North Carolina at Chapel Hill.

'The directorate's broad range of scientific endeavor underpins all of the Laboratory's national security missions.'

Meyer is responsible for enhancing basic and applied research in support of the Laboratory's nuclear-weapons and threat-reduction programs and for ensuring the strength and quality of basic research at the Laboratory.

"The directorate's broad range of scientific endeavor underpins all of the Laboratory's national security missions," said Meyer. "Directorate researchers team with counterparts across the Laboratory to foster and give form to ideas that help change the world."

Meyer joined the UNC faculty in 1968 after a year as a NATO postdoctoral fellow at University College, London. He served as the head of chemistry, dean of the graduate school and, before coming to the Laboratory, as vice chancellor and vice provost for Graduate Studies and Research. Meyer serves on the boards of the Mind Institute, the International Informatics Society, the National Center for Genome Research, Coronado Ventures Forum and the Scientific External Advisory Committee of Sandia National Laboratories.

Meyer is a member of the National Academy of Sciences and the American Academy of Arts and Sciences. He has published more than 500 papers and has three patents and is one of the most highly cited chemists in the world.

Meyer is responsible for the Chemistry (C) Division, Earth and Environmental Sciences (EES) Division, Industrial Business Development (IBD), Materials Science and Technology (MST) Division, Office of Energy and Environment Initiatives (OEEI) and the Theoretical (T) Division.



James Holt, associate director, operations

James Holt has served as associate Laboratory director for operations since October 2001. Before that, Holt served as program director for Infrastructure, Facilities and Construction and as chief of staff for the Laboratory's Nuclear Weapons Directorate.

'I am personally dedicated to implementing integrated management at the Laboratory, which includes safety, security and environmental stewardship ...'

Holt has personal responsibility for institutional safety and security activities at the Laboratory as well as for the Laboratory's environmental stewardship activities and commitments, institutional site planning, waste operations, real property and facility management, and performance surety (institutional quality management, Price Anderson Act interface, authorization basis oversight, etc).

"I am personally dedicated to implementing integrated management at the Laboratory, which includes safety, security and environmental stewardship as well as other areas driven by regulatory requirements," said Holt. "The other major area of my focus is infrastructure improvement, including improvements in our facilities, roads, parking and all other aspects of infrastructure at the Laboratory that will support our outstanding science mission."

He began his career at the Laboratory in 1981 as a technical staff member in the Isotope Separation Program, later served as chief scientist on two nuclear tests, held numerous management and project leader positions and has undertaken change-of-station assignments with the Department of Energy and Department of Defense.



Donald Cobb, associate director, threat reduction

Don Cobb began his career at Los Alamos in 1976 and since 1998 has been the associate director for threat reduction.

'I have worked to maintain a dual focus, that of consistent excellence in both science and safety ...'

His directorate includes science and technology programs involving defense, nuclear technology, nonproliferation, controlling the spread of weapons of mass destruction, space sciences, international technology and related assessments.

The underpinning science of threat reduction includes nuclear science and engineering, biosciences, space sciences, chemistry, electrical engineering, statistics, computer science and more.

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Defense Transformation

An interesting window for science and

A relatively new term, "Defense Transformation," has been heard more frequently around the nation and the Laboratory in recent times. For those not following the nuances of military communications, it can seem like a murky concept, but it need not be.

Defense Transformation offers an interesting window for science and technology developers across the Laboratory to see their ideas applied to interesting problems for sponsors with whom they may not have worked in the past. What Defense Transformation means for Laboratory staff is a shift within the Department of Defense (DoD) toward a more nimble, rapidly deployed force with a more high-tech approach. Looking to the science and technology world for advanced sensors, knowledge extraction, communications tools, smarter munitions and more, defense planners and purchasers will be working

Alphabet soup

A guide to key U.S. military unified commands

STRATCOM: The United States Strategic Command, or USSTRATCOM, is the command and control center for U.S. strategic forces and controls military space operations, computer network operations information operations, strategic warning and intelligence assessments as well as strategic planning.

NORTHCOM: U.S. Northern Command, was formed in the aftermath of 9/11 to conduct operations to "deter, prevent, and defeat threats and aggression aimed at the United States, its territories and interests" and, as directed, provide military assistance to civil authorities.

JFCOM: Joint Forces Command leads the integration of U.S. military capabilities, ensuring that strategies and systems are interoperable, and vetting new requirements with the Department of Defense. The commander of JFCOM is responsible for all joint experimentation and war-game operations.

SOCOM: Special Operations Command is composed of Army, Navy and Air Force Special Operations Forces with a mission to support the geographic commands, by preparing to successfully conduct special operations.

differently than they have in the past.

As Laboratory Director G. Peter Nanos recently stated, "America's strength has always relied upon courage, valor and unprecedented technological superiority of our armed services. Los Alamos National Laboratory is proud to partner with defense industries in creating ideas that change the world and to ensure the military might of our nation remains a formidable force for freedom."

Defense Transformation had its origins in the Quadrennial Defense Review (QDR) of 2001. Defense Secretary Donald Rumsfeld there defined six operational goals in the new approach (see Page 5). These goals are designed to help focus investment planning for defense research, development, acquisition and training.

The DoD budget for research and development amounts to many billions of dollars, so even small shifts can be important. Paul Weber, threat reduction's deputy associate director for defense science and technology, notes, "It is reasonable for our researchers to begin assessing where their skills and creativity could fit in." He cites some essential focus areas that have been identified by Rumsfeld, some of which align with existing strengths for Los Alamos:

- information processing, assurance and operations
- sensors
- communications
- intelligence, surveillance and reconnaissance
- lasers and high-power microwaves



Paul Weber

- space systems
- biological defense
- hard and deeply buried target-defeat munitions
- precision guidance
- combating terrorism
- missile defense
- mine countermeasures
- electronic warfare
- advanced power, fuel and energy systems.

(The 2002 DoD report can be downloaded online at <http://www.defenselink.mil/execsec/adr2002/toc2002.htm>.)

To capture some of those focus areas' technical concepts and map them to the key Laboratory strengths in a strategic fashion, Don Cobb, associate director for threat reduction, chartered the Defense Transformation Steering Group (DTSG) with representation from around the Laboratory. As a first step, this team has been examining the changes in DoD since the 2001 QDR, working toward identifying some possible opportunities for relevant Laboratory capabilities.

For those who are used to dealing with a single sponsor in the Department of Energy, the DoD world can be daunting. For example, Weber explains that there are nine unified commands including STRATCOM, JFCOM, NORTHCOM and SOCOM (see sidebar) who set the requirements and constraints for certain military investments, thus influencing the direction of some of the DoD funding organizations.

"With this more high-tech approach to the battlefield comes an increased role for the Defense Advanced Research Projects



Feature-extraction algorithms (GENIE) were developed and applied to multispectral imagery of lower Manhattan post-Sept. 11. GENIE is a product of the Nonproliferation and International Security (NIS) Division. Here, GENIE identifies debris plume rising from the terrorist attack.

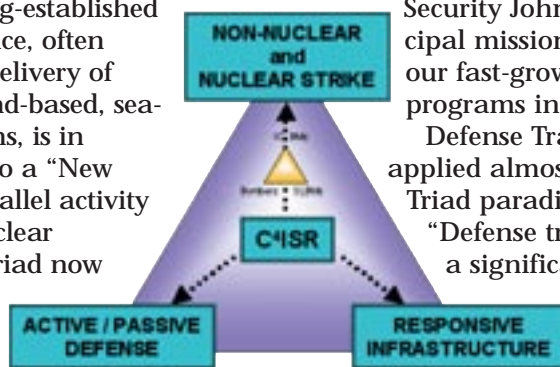
technology developers across the Lab



Metastable Intermolecular Composite (MIC) SuperThermites are a new class of energetic materials, discovered and developed at Los Alamos in the Dynamic Experimentation (DX) Division. MIC reactive fragments can carry both kinetic and chemical energy to the target. Chemical energy provides order-of-magnitude increased power over purely kinetic material.

Agency (DARPA) as well, which is as an important source for funding transformational research and development," said Weber, noting also that the Laboratory's DoD Program Office already has fine relationships with DARPA.

Other changes are under way with DoD as well, Weber notes. The long-established picture of nuclear deterrence, often described as a triad with delivery of nuclear weapons by ground-based, sea-based and airborne systems, is in transition. It has evolved to a "New Triad," as a result of a parallel activity to the QDR, called the Nuclear Posture Review. The new triad now combines nuclear and non-nuclear strike at one apex, with active and passive defense at the second corner and responsive infrastructure at the third corner. In the center one finds



another acronym: "C4ISR," for command, control, communications, computers, intelligence, surveillance, reconnaissance, and C4ISR links all three apices.

The Laboratory's national security mission is found throughout the New Triad, according to Deputy Director for National Security John Immele, from its principal mission in nuclear weapons, to our fast-growing capabilities and programs in C4ISR.

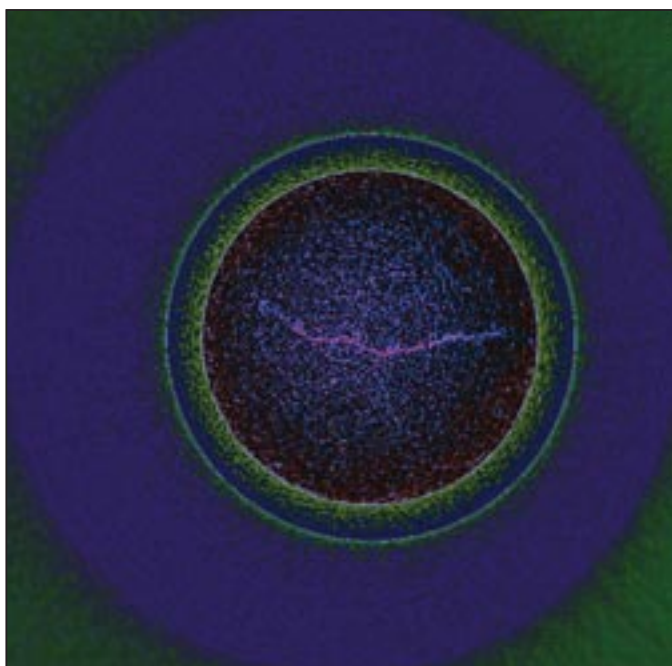
Defense Transformation can be applied almost throughout the New Triad paradigm, Weber says.

"Defense transformation represents a significant change in military culture and planning that will increasingly rely on advanced science and technology to support the ambitious goals set out by military leaders."

"The change may offer a fine opportunity for the Laboratory to become a preferred provider of solutions to DoD for "hard-to-solve" problems," Weber suggests.

Weber and the Defense Transformation Steering Group welcome and request Laboratorywide insights and participation — contact the team at defense_st@lanl.gov and see its Web site at http://int.lanl.gov/orgs/defense_st.

Computer and Computational Sciences (CCS) Division's efforts currently support the development of the JPEG 2000 international standard for highly scalable coding and compression of image data. This new JPEG standard will feature expanded capabilities and scope over the original, with scalability to enable applications such as region-of-interest decoding resolution, as shown in the image here, where users can decode only the necessary or desired resolution.



President George W. Bush envisions: "... a future [military] force that is defined less by size and more by mobility and swiftness, one that is easier to deploy and sustain, one that relies more heavily on stealth, precision weaponry and information technologies."



—2001 speech at the U.S. Naval Academy in Annapolis, Maryland

Secretary of Defense Donald Rumsfeld has been prolific in talking about (and implementing) transformation. "[Defense Transformation is] a process that shapes the changing nature of military competition and cooperation through new combinations of concepts, capabilities, people and organizations that exploit our nation's advantages and protect against our asymmetric vulnerabilities to sustain our strategic position, which helps underpin peace and stability in the world."



In his 2002 Annual Department of Defense report, he stated, "To keep the peace and defend freedom in the 21st century, our defense strategy and force structure must be focused on achieving six transformational goals:

- Protect the U.S. homeland and critical bases of operations.
- Project and sustain power in distant theaters.
- Deny our enemies sanctuary.
- Leverage information technology.
- Improve and protect information operations.
- Enhance space operations."



McClelland named to Experimental Physics post

John McClelland is the new deputy associate director for experimental physics in the Weapons Physics Directorate.

McClelland has been a Laboratory employee for 23 years and has been instrumental in weapons physics, advanced radiography programs and accelerator physics at the Lab. He is a fellow of the American Physical Society and a member of the APS Division of Nuclear Physics. McClelland received his doctorate in physics from the University of California, Los Angeles.

"I cannot think of a more challenging set of issues than those currently under investigation in the Weapons Physics Directorate," said McClelland. "And I don't believe there is a greater team of people to work with on these issues."

McClelland's work on advanced radiography includes research and development in proton radiography, optimization of the Dual Axis Radiographic Hydrotest facility, and simulation and analysis of Advanced Hydrotest Facility design and theory. As program manager for nuclear physics, McClelland represented a diverse experimental and theoretical effort that linked with outside collaborators at universities and other national laboratories and included substantial Laboratory Directed-Research and Development funding.



Beason and Scott to lead newly formed divisions

Douglas Beason and Sara Scott have been selected as division leaders for the new Proliferation Detection and Monitoring (J Division) and the Nuclear Nonproliferation (N Division), respectively.

Beason joined the Laboratory in 2001 after a distinguished career in the U.S. Air Force that culminated with his service as commander, Phillips Research Site and deputy, Directed Energy. Since joining the Laboratory, he has served as deputy associate director in Threat Reduction and deputy division leader for Science and

GRO's Nick Salazar receives Taos recognition

Nick Salazar of the Government Relations Office (GRO) and a state representative was recognized in May for his hard work, dedication and assistance by the Taos County Board of Commissioners during the first session of the 2003 State Legislature.

Salazar has 31 years of experience as a state representative, beginning his career in 1972 and serving 16 consecutive terms. He currently represents Mora, Rio Arriba, San Miguel, Santa Fe and Taos counties. Salazar previously served two consecutive terms as county commissioner for Rio Arriba County from 1966-1970.

"The Lab has been generous to allow elected officials to participate in local government. The opportunity to serve in government positions contributes to improvements of infrastructure, education, health and to the overall well-being of our citizens in our communities," Salazar said.

Salazar began his career at the Laboratory in 1950 in the former Controlled Thermonuclear Research (CTR) Division, where he first worked as a technician and thereafter in many different capacities, including safety officer. Salazar retired in 1991 after 42 years of service and returned as a Laboratory Associate to work for GRO as a legislative liaison.

"I worked for the Army Corps of Engineers during the summers under Gen. Leslie Groves, and I remember seeing then-Laboratory Director Robert Oppenheimer. I'm very proud to be a part of the Lab's history almost since its inception," he said.

Salazar has received numerous awards throughout his career including having an annual national award, the Nick L. Salazar award for contributions to economic development, named for him; receiving an outstanding citizens award; senior citizen annual award for contributions to seniors; and an honorary doctor of law and humane letters from the College of Santa Fe. He also is the recipient of the Laboratory's Distinguished Performance Award.



Technology in the Nonproliferation and International Security (NIS) Division. He has a doctorate in physics from the University of New Mexico.

Scott joined the Laboratory as a Postdoctoral Fellow in 1989. She has served as group leader for Analytical Chemistry Sciences (CST-9), as program manager for Nonproliferation and Arms Control and currently serves as associate center director for Radiological and Nuclear Threats in the Center for Homeland Security. She has a doctorate in inorganic chemistry from Iowa State University.

Scott and Beason will be working to get their new divisions ready for official startup Oct. 1.

Yarbro new NMT division leader

Stephen Yarbro, a chemical engineer and 20-year Los Alamos National Laboratory veteran, is the new leader of the Laboratory's Nuclear Materials Technology (NMT) Division.

As leader of the 800-person division, Yarbro will provide scientific and technical leadership in actinide materials science and manufacturing technology. He also will be responsible for operating the Laboratory's plutonium processing facility at Technical Area 55.

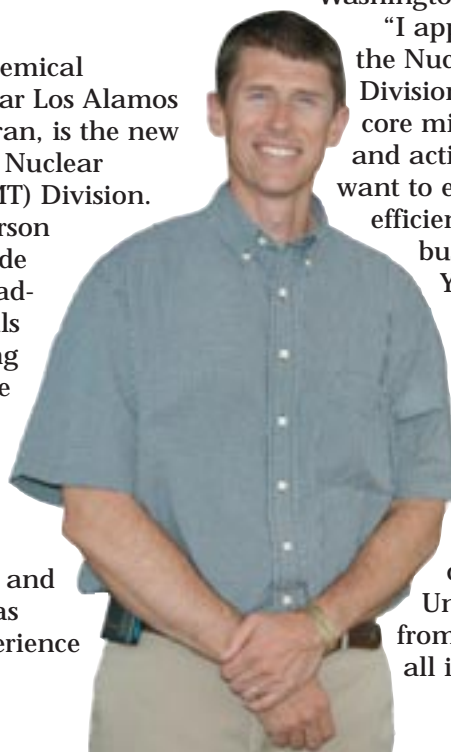
"Steve has expertise in actinide materials science and technology development as well as management experience at multiple levels at the

Laboratory," said Rich Mah, associate director for weapons engineering and manufacturing. "His combined technical expertise and management experience make him the ideal choice for this position."

During his career at Los Alamos, Yarbro has worked in actinide material recovery, process development, process technology and process chemistry. He has 14 years of management experience, including jobs as section leader for process development, team leader for advanced projects, project leader for technology development, deputy group leader for process technology and nitrate systems, and group leader for actinide process chemistry. Most recently, he served as NMT Division's deputy leader for plutonium science and technology. Yarbro began his career as a process engineer at the Hanford Plutonium Finishing Plant in Washington.

"I appreciate the opportunity to lead the Nuclear Materials Technology Division and help refocus NMT on its core missions of stockpile stewardship and actinide science. At the same time, I want to ensure we operate our facilities efficiently and implement the best business practices available," Yarbro said.

Yarbro is a registered professional engineer, a member of the American Institute of Chemical Engineers and was honored as an 'Eminent Engineer' by the Tau Beta Pi Engineering Honor Society. He holds doctoral and bachelor's degrees from New Mexico State University and a master's degree from the University of New Mexico, all in chemical engineering.



Come join us for a day at the ballpark with family and friends



Los Alamos
National Laboratory
Day at Isotopes Park
Labor Day, Sept. 1

Director G. Peter Nanos is practicing his 30 MeV fastball, better known as the "accelerator," for the first ceremonial pitch of the ball game. Currently in first place in their division, the Isotopes will be playing their last regular season game. Orbit, the team mascot, is coming to Los Alamos to sell tickets, escorted by Director Nanos. Check the daily Newsbulletin for times and places. Please join your fellow Laboratory employees and their families at this special occasion developed just for Los Alamos. From our Lab to their Lab — or ballpark — we both do Isotopes like no others. Call Kathy DeLucas with any questions at 7-5225 or e-mail at kdelucas@lanl.gov.



Limited-seating tickets \$4 and \$7, cash only

Meet the SET...

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"I have worked to maintain a dual focus of consistent excellence in both science and safety across my directorate," said Cobb.

Following the Sept. 11 attacks, he led the Lab's response, including the establishment of the Center for Homeland Security. Before establishing the Threat Reduction Directorate, Cobb led the Nonproliferation and International Security (NIS) Division from 1993 to 1998, expanding its range to include work with states from the former Soviet Union to advance efforts in nuclear material control and accountability. NIS also responded to other new opportunities in nonproliferation detection and analysis. The division also conducted extensive research in space science and astrophysics, with a strong collaborative effort with NASA.

Cobb has 27 years of experience in nuclear weapon phenomenology and nuclear safeguards. He has conducted research in detecting nuclear detonations in the atmosphere and on nuclear safeguards systems for civilian power facilities. Cobb was project leader for the Beam Experiments Aboard Rocket (BEAR) experiment, which tested a neutral particle beam accelerator during a suborbital rocket flight. He also has managed satellite treaty-verification programs at Los Alamos.

Cobb earned a master's degree in physics and a doctorate in high-energy physics from the University of Iowa.

Cobb is responsible for the following organizations: Bioscience (B) Division; Decision Applications (D) Division; Nonproliferation and International Security (NIS) Division; Nuclear Materials Management Program Office; Threat Response Operations; Department of Defense Program Office; Center for Space Science and Exploration; International Technology; Nonproliferation Programs; and Research and Development.

Richard Mah,
associate director,
weapons engineering
and manufacturing

Rich Mah, associate director for weapons engineering and manufacturing, was appointed to this position in October 2001 by former Director John Browne.

'Since nuclear weapons is "job one" at the Laboratory and is of national importance, excellence is a requirement for all our activities.'

Before his appointment to the directorate, he led the Industrial Business Development (IBD) Program Office. He also has had oversight of two large research facilities — the Target



Fabrication Facility and the Sigma Complex, directed the Nuclear Weapons Complex Reconfiguration Program and managed the Advanced Technology Assessment Center among his numerous Laboratory management positions.

His current duties as associate director include programmatic responsibility for overseeing the engineering and manufacturing aspects of the nuclear weapons program to fulfill the stockpile stewardship mission at LANL.

"Since nuclear weapons is 'job one' at the Laboratory and is of national importance, excellence is a requirement for all our activities," said Mah.

Mah originally came to the Lab in 1976 after working in research and development at the Rocky Flats facility. Mah received a bachelor of science degree in theoretical and applied mechanics and a master of science degree in metallurgical engineering from the University of Illinois.

Divisions under the Weapons Engineering and Manufacturing Directorate: Engineering Sciences and Applications (ESA) and Nuclear Materials and Technology (NMT) including the Integrated Product Team for Pit Manufacturing

Raymond Juzaitis,
associate director,
weapons physics

Raymond Juzaitis, associate director for weapons physics, was appointed to this position in October 2001 by former Director John Browne. Juzaitis had previously served as deputy division leader for the former Field Test (J) Division, division leader for the Applied Physics (X) Division and senior technical adviser in the Department of Energy's Defense Programs Office in



'We are championing the development of predictive science, which is a Laboratory strategic goal that will benefit virtually all strategic goals of the Laboratory.'

Washington, D.C.

He became deputy associate director for Nuclear Weapons in 1999 and also served as director of the national hydrotesting program during this time. During 2001, he took a "Return-to-Research" sabbatical to investigate nuclear-weapon-certification methodology.

His current duties as associate director include programmatic responsibility for nuclear-weapons physics design and assessment efforts, including Labwide science activities that contribute most directly toward the science-based certification of nuclear-weapon performance and safety.

Juzaitis originally came to the Lab in 1978 as a postdoctoral student in the Theoretical (T) Division after receiving his bachelor of science in chemical engineering from Princeton and his master's of engineering and doctorate in nuclear engineering from the University of Virginia. His first position as a staff member was in the Monte Carlo group (X-6).

"In the Weapons Physics Directorate we are responsible for the certification of nuclear warheads. As part of our responsibility, we are championing the development of predictive science, which is a Laboratory strategic goal that will benefit virtually all strategic goals of the Laboratory."

Juzaitis is responsible for the following organizations: Computing, Communications and Networking (CCN) Division; Computer and Computational Sciences (CCS) Division; Dynamic Experimentation (DX) Division; Los Alamos Neutron Science Center (LANSCE) Division; Physics

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