

The *ENVoy*

Newsletter of AFIT/ENV

Department of Systems & Engineering Management

**Air Force Institute of Technology
Wright-Patterson Air Force Base Ohio**



**Department of Systems
&
Engineering Management
Hosts 4th CBRNE Symposium**



AFIT and Wright State University (WSU) hosted the 4th CBRNE Research and Education Collaboration Symposium on September 21– 23 at Calamityville (National Center for Medical Readiness) in Fairborn, OH. This chemical, biological, radiological, nuclear, and high-yield explosive (CBRNE) symposium brought together over 100 researchers and responders from over 40 organizations to share the latest in CBRNE topics. Responders and researchers learned about cutting-edge research and development in detection equipment and response capabilities, as well as current issues within the response community. Topics included HAZMAT involvement with drinking water contamination emergencies; the Fukushima nuclear incident response; an overview of the Ohio National Guard Homeland Response Force; and a demonstration by the 52nd Army National Guard Civil Support Team, among others. The keynote speaker was Nancy Dragani, executive director of the Ohio Emergency Management Agency. In her role, Dragani leads the state's coordinated preparedness and response to both man-made and natural disasters, administers the State Homeland Security Funding Program, and oversees disaster recovery and mitigation efforts.

This year's event culminated in an exciting, one-day field exercise highlighting the civilian-military response to a terrorist/hostage situation on a bus containing a radiological mass destruction device as well as a response to a clandestine CBRNE lab. The event brought the military and civilian communities together to reinforce the joint nature of military and civilian responses. The simulation involved Ohio State Patrol's Special Response Team; Wright-Patterson Air Force Base Fire Department, the 52nd Civil Support Team of the Army National Guard; Wright State University students as victims; and the sensors network at Calamityville.

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Our Mission

Provide defense-focused graduate education and engage in interdisciplinary research to achieve integrated solutions to 21st century Air Force challenges and enhance the interface between technology and human resources by focusing on systems, processes, and management.

Our Vision

Be recognized as a multidisciplinary intellectual asset to the Air Force for providing integrated solutions to operational challenges and enhancing the interface between technology and management by focusing on systems, processes, and organizational implementation.

Department Head's Message



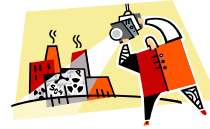
Prof. Adedeji B. Badiru

October 1, 2011 marked my fifth anniversary of coming to AFIT from the University of Tennessee, Knoxville to assume the position of Head of Systems and Engineering Management (AFIT/ENV). It has been an exciting period filled with departmental advancements. A remarkable transformation in the department has been an increase in sponsored research accomplishments, which went from an average of \$50K in 2006 to the present level of over \$2million. This level of research activity has opened up additional avenues for intellectual engagements. Refereed publications efforts have kept pace with the research funding and innovative educational programs have been instituted. Thus, confirming the mantra of “teaching what we research and researching what we teach.” Our PRAC (Program Realignment And Consolidation) initiative has become a reality. In response to the search for cost savings throughout the Air Force, we proactively took the initiative to pursue efficiency and effectiveness in the department’s academic programs. This facilitates vibrancy, innovation, and creative program restructuring. The consolidated programs offer more agility, flexibility, and adaptability as we cater to a more diverse clientele and military career fields. In implementing PRAC, we made sure that we align our programs with the prevailing priority areas of the Department of Defense (DoD) and the US Air Force. The structure is designed such that we can adapt and respond to new changes, initiatives, and challenges in our operating environment. One major outcome of our new program offerings is the Human Systems Integration (HSI) degree option, which is now available by leveraging existing consolidated academic programs. We recently offered admission to the first PhD student into the HSI program. We have accomplished the goals of PRAC without compromising academic offerings, but rather by strengthening and leveraging commonalities that exist among academic tracks.

Our faculty and students continue to win professionally competitive awards and recognition. We are more engaged externally than ever before. Our increased international outreach and visibility have made it possible to collaborate productively with civilian institutions and research counterparts. We continue to rely on feedback from our students, alumni, and friends. Please do not hesitate to reach us through the “*ENV*velope, please” call for comments at the end of the newsletter. Please read on.

With the utmost regards,

Adedeji B. Badiru



Faculty/Staff Spotlight

Dr. Michael R. Grimaila
Fellow of the Information Systems Security Association



Picture Caption: Kevin L. Richards (Left), ISSA International President, and Ira Winkler (Right), Director of the ISSA International Board, present Dr. Michael R. Grimaila (Center) with the ISSA Fellow Award.

On 20 October 2011, Dr. Michael R. Grimaila was named as a Fellow of the Information Systems Security Association (ISSA) at the ISSA International Conference in Baltimore, MD. Dr. Grimaila was recognized for his lifetime contributions to technical, academic and research excellence in applied information security; his mission assurance and security education contributions within the US Department of Defense; and his contributions on editorial advisory board of the ISSA Journal since 2002. Dr. Grimaila stated “It is an honor to be recognized for my contributions in the information security discipline. So much of our personal lives, our society, our economy, our infrastructure, and our national defense are dependent upon information and communications technologies; perhaps no time before in history has information security been more important to the safety and security of our way of life. It is my goal to educate and enable the next generation of security professionals to succeed in assuring their organizational mission.” Dr. Grimaila joins a distinguished group of academic and professional security professionals recognized as Fellows by the ISSA including Dorothy Denning, Alan Paller, Howard Schmidt, Bruce Schneier, and Eugene Spafford. Dr. Grimaila, PhD, CISM, CISSP is an Associate Professor of Systems Engineering and a member of the Cyberspace Center for Research at the Air Force Institute of Technology, Wright-Patterson Air Force Base, Ohio, U.S.A.

SCHOLARLY ACHIEVEMENTS

REFEREED JOURNAL PUBLICATIONS

- Dube, T., Raines, R., Peterson, G., Bauer, K., **Grimaila, M.R.** and Rogers, S., "Malware Target Recognition via Static Heuristics," *Computers and Security*, September 2011, pp. 1-22.
- Grimaila, M.R.**, and **Badiru, A.B.**, "A Hybrid Dynamic Decision Making Methodology for Defensive Information Technology Contingency Measure Selection in the Presence of Cyber Threats," *Operational Research: An International Journal*, Vol. 10, No. 3, Jan 2011, pp. 1-22.
- Hitesh Kapoor, **Som Soni** and James Blackshire, "Damage detection in z-pinned co-cured composite pi-joints using pitch-catch Ultrasonic analysis and 1D Scanning Laser Vibrometry, *Journal of Structural Longevity*, pp 1-18, 2011.
- Kelly, D., Raines, R., Baldwin, R., Mullins, B., and **Grimaila, M.R.**, "Exploring Extant and Emerging Issues in Anonymous Networks: A Taxonomy and Survey of Protocols and Metrics," *IEEE communications Surveys and Tutorials*, Vol. PP(99), June 2011, pp. 1-28.
- Omitaomu, O. A., MK Jeong, and **Badiru, A.B.**, "Online Support Vector Regression With Varying Parameters for Time-Dependent Data," *IEEE Transactions on Systems, Man, and Cybernetics – Part A: Systems and Humans*, Vol. 41, No. 1, Jan 2011, pp. 191-197.
- Wu, Teresa, **Soni, Som**, Hu, Mengqi, Li, Fan, and **Badiru, A.B.**, "The Application of Memetic Algorithms for Forearm Crutch Design: A Case Study," *Mathematical Problems in Engineering*, vol. 2011, Article ID 162580, 14 pages, 2011.

CONFERENCE PUBLICATIONS

- Blackshire, J.L. and **Soni, S.**, "Lamb Wave Propagation in a Restricted Geometry Composite Pi-Joint Specimen," proceedings of 38th Annual Review of Progress in Quantitative Nondestructive Evaluation, (submitted for publication September 2011).
- Calver, T.I., **Grimaila, M.R.**, and Humphries, J., "An Empirical Analysis of the Cascade Error Reconciliation Protocol for Quantum Key Distribution," Proceedings of the Cyber Security and Information Intelligence Research Workshop (CSIIRW 2011), Oak Ridge National Laboratory, Oak Ridge, TN, October 12-14, 2011.
- Francisco Ospina, **Som Soni** and James Blackshire , "Analysis of crack detection under changes in the structure shape due to pressurization and atmospheric pressure effects", *Structural Longevity Forum*, July 26-28, 2011, Orlando, Florida.
- Frank Sha, **Som Soni** and James Blackshire, "Ballistic Response of Hybrid Composites Armor System", *Structural Longevity Forum*, July 26-28, 2011, Orlando, Florida.
- Harnly, M.** and **Sitzabee, W.**, "Strategic Infrastructure Asset Management Modeling." Forty-First Western Decision Science Institute Annual Conference, Hawaii, 2012.
- Johnson, T., Sitzabee, W.**, and **Feng, P.**, " Evolution of Relational Contracting in Construction: Project Delivery Methods Beyond Partnering." Annual International Command and Control Research and Technology Symposium (ICCRST), June 2011.
- Miller, M.E.** and **Gilman, J.** (2011). Daylight-Matched Lighting for Mixed Illumination Environments, In Proceedings of the Illuminating Engineering Society Conference, Austin, TX: Illuminating Engineering Society.
- Naga, V., **Colombi, J., Grimaila, M.R.**, and Hopkinson, K., "A Method to Determine Superior QoS Configurations for Mission Objectives: Aligning the Network with the Mission" Proceedings of the 2011 International Conference on Security and Management (SAM11), Las Vegas, Nevada, July 18-21, 2011.
- Peterson, C., **Grimaila, M.R.**, Mills, R.F., Haas M.W., Thomas, G., and Kelly, D., "Measuring the Utility of a Cyber Incident Mission Impact Assessment (CIMIA) Notification Process," Proceedings of the 2011 International Conference on Security and Management (SAM11), Las Vegas, Nevada, July 18-21, 2011.
- Pluger, M., **Feng, P.**, Holt, D., and **Sitzabee, W.**, "Management Analysis of Civil-Military Construction in Iraq and Afghanistan." Annual International Command and Control Research and Technology Symposium (ICCRST), June 2011.
- Schiff, Z. and **Sitzabee, W.**, "A Spatial Risk Analysis of Oil Refineries and Impacts to Military Operations." Forty-First Western Decision Science Institute Annual Conference, Hawaii, 2012.
- Schiff, Z. and **Sitzabee, W.**, "A Spatial Risk Analysis of Oil Refineries within the United States." The 2011 International Conference on Security and Management, Las Vegas, Nevada, July, 2011.
- Sitzabee, W., Feng, P.**, and Sturtevant, M., "Intelligent Transportation Systems and Asset Management." The 7th Annual Inter-University Symposium on Infrastructure Management, Chicago II, June 2011.
- Soni, Som, Badiru, A.B.**, and Wu, Teresa, "Applying Memetic Algorithms to Design Durable Forearm Crutch, *Structural Longevity Forum*, July 26-28, 2011, Orlando, Florida.
- Soni, Som R.** and Clay, Stephen, "Fatigue failure of z-pinned co-cured laminated composites" , *Structural Longevity Forum*, July 26-28, 2011, Orlando, Florida.
- Soni, S.R., Badiru, A. B.** and Wu, Teresa, "Process Improvement Example in Product Design of Durable Forearm Crutch", Dec. 18-20, 2011, presented at International Conference on Agile Manufacturing, Agra, India.
- Surajbally, K., Feng, P., Sitzabee, W** and Suermann, P. " Mission Assurance Implications for Federal Construction." The 2011 International Conference on Security and Management, Las Vegas, Nevada, July, 2011.
- Valencia, V., Colombi, J., Thal, A.,** and **Sitzabee, W.** "Asset Management: A Systems Perspective." Institute of Industrial Engineers National Conference, June, 2011.

SCHOLARLY ACHIEVEMENTS

SPONSORED RESEARCH

Badiru, A. B., Pete Feng, Robb Wirthlin, Bill Sitzabee, and Al Thal “Systems Engineering Research Efficiencies,” Staff Air Force, Pentagon, \$50,000, Mar1 – Sept 30, 2011.

Goltz, M.N. and L. Racz, Fate and Transport of Nanosilver in Groundwater Phase II, AFMSA/SG9, \$80,000.

Colombi, John, “SERC RT34 Expedited Systems Engineering”, \$100,000, Fall 2011.

Colombi, John, “SERT RT37 Agent Based Modeling for System of Systems”, \$40,000, Fall 2011.

Colombi, John, “ASC/XR on LifeCycle Cost Analysis for Leading Indicators during Early Systems Acquisition”, SAF/AQ, \$67,400, Fall 2011.

Grimaila, M.R., "Robust Decision Making for Improved Mission Assurance STT," Air Force Research Laboratory, \$25,000, Nov 2011-Sep 2012.

Racz, L., "Fate of Organophosphate Chemical Warfare Agents and Other Toxic Chemicals in a Municipal Wastewater Treatment System", US Environmental Protection Agency, Office of Research and development, National Homeland Security Research Center, \$34,000, Oct 11- May 13.

Wirthlin, J.R. and Soni, S.R., “Composite Airframe Cost Estimation Model”, NPS, \$120,000, November 2011.

AWARDS, OUTREACH, ETC.

Badiru, A. B appeared on local evening news interview on Dayton Channel 2 WDTN TV, NBC Affiliate, about proposed panhandling legislation in Beavercreek, Ohio, Monday, October 31, 2011:
http://www.wdtm.com/dpp/news/local/greene_county/wdtm-City-considers-panhandling-ordinance-mo-

Badiru, A. B., Invited Discussant on International Research Collaboration, World Academy of Science, Engineering, and Technology (WASET 2011), Paris, France, Aug 23-26, 2011.

Badiru, A. B., Invited Graduation Lecture “Advancements in Energy Technology: Implications for UAV Design and Development,” Nigeria Air Force Institute of Technology, Kaduna, Nigeria, July 29, 2011.

Goltz, M.N., Co-chaired session titled Complexities of Flow and Transport in Porous Media at the Fall 2011 American Geophysical Union meeting, 5-9 December 2011.

Dr. Michael R. Grimaila chaired a workshop on Mission Assurance and Critical Infrastructure Protection at the 2011 International Conference on Security and Management (SAM11), Las Vegas, Nevada, July 18-21, 2011.

J.R. Wirthlin and S.R. Soni, “Composite Airframe Cost Estimation Model”, NPS, \$120,000, November 2011.

ALUMNI AWARDS

Dr. James T Moore (M.S. Operations Research, 1981) received the Lifetime Achievement Award

Lt Col Amie C Stryker (PhD Systems Engineering, 2010), **Lt Col Francisco Rivera** (M.S. Air Logistics, 2009) and **Maj Nathan J Leap** (PhD Operations Research, 2008 and M.S. Operations Research, 2004) are members of the HQ USAF Budget Excursion Analysis Team that received the Analytic Team of the Year Award

Maj Jennifer G Walston (PhD Operations Research, 2007 and M.S. Operations Research, 1999) received the Field Grade Analyst of the Year Award

Capt Benjamin M Lee (M.S. Operations Research, 2010) received AFMC’s Company Grade Analyst of the Year award.

STUDENT AWARDS

Capt Paul S. LaTour received the AFIT Systems Engineering Award from Science and Technology. The award recognizes the AFIT students or teams for outstanding achievements in furthering systems engineering understanding in the United States Air Force.

Maj Vhance Valencia received the honor of Intermediate Developmental Education (IDE) equivalency for Professional Military Education.

BOOK CHAPTERS

Badiru, A. B. (2011), “Introduction to Half-Life Theory of Learning Curves,” in Jaber, M. editor, Learning Curves: Theory, Models, and Applications, CRC Press, Boca Raton, FL, pp. 129-161.

Badiru, A. B. (2011), “Industrial Work Measurement through Multivariate Learning Curves” in Jaber, M. editor, Learning Curves: Theory, Models, and Applications, CRC Press, Boca Raton, FL, pp. 349-366.

Department Happenings

AFIT Professor Visits South Korea



Dr. Mark Goltz visited Seoul, Korea in December where he held meetings at various universities. Dr. Goltz, 3rd from the left, along with Prof. D. S. Kim from the University of Toledo and Dr. D. Y. Yoon from Kwangwoon University, met with the President of Kwangwoon University to discuss the three university Nano-STAR consortium, which was established earlier this year to develop nanoscale sensors. While in Seoul, Dr. Goltz also held discussions on the intersection of defense and the environment, as well as AFIT environmental programs, with the faculty of the Korea National Defense University (see photo at left) and the environmental engineering faculty of the Korea Military Academy.

689th Combat Communications Wing Commander, Colonel Scherrer Comes to AFIT

On October 27th, AFIT was privileged to entertain a former distinguished graduate, Colonel Joseph Scherrer (GIS 98-M), Commander of the 689th Combat Communications Wing, Robins Air Force Base, Ga. The 689th CCW is one of three Wings under the USAF's first "cyber-numbered air force," the 24 AF. In his address to students, he reiterated the importance of the lessons he learned at AFIT about the primacy of information versus technology. He stressed that, though the cyber community has made significant progress in "extending" the network into tactical environments, and continues to make progress in "defending" that network, one of the significant challenges remains effectively "operating" the network--in other words, understanding what functions are required by a system's primary customers and how the system can best service those functions. Or, to put it succinctly, using a quote he attributed to AFIT's Dr. Alan Heminger from 1998, "It's all about the information!" After his presentation, Colonel Scherrer was presented with the AFIT alumni pin in recognition for his distinguished service to the USAF as an AFIT graduate. AFIT enjoyed Colonel Scherrer's visit, and is looking forward to supporting his organization's research initiatives in the near future.



ENV to Host Mobile Defense Decision Support Course in 2012

The Graduate Cost Analysis (GCA) program is partnering with HQ AFMC/FM to host the mobile Defense Support Course (DDSC) on the AFIT campus from 6-9 December 2012. DDSC is traditionally taught at Maxwell AFB through the Defense Financial Management & Comptroller School. The importance of the GCA students as future leaders in the Financial Management career field is recognized through ENVs selection to host the mobile version of the DDSC course. DDSC prepares financial managers to advise senior leaders with a decision support model comprised of analytic tools and techniques (both qualitative and quantitative) that are put into action through practical exercises. Much of the course is accomplished through small groups. Partnering with AFMC/FM allows MAJCOM and ASC financial managers to be integrated with the GCA students in these groups. Leveraging the knowledge base of these disparate financial professionals greatly enhances the learning experience. Demand for this unique opportunity is expected to be high, with approximately 40 participants.

Department Happenings

Seed Money Sprouts Fruitful Projects for the ENV Asset Management Team

The ENV Asset Management Team's operations focus shined in 2011. Their overarching research analyzes the effect that snow removal and de-icing operations have on the retroreflectivity of paint pavement markings. Over time, the pavement markings on roads degrade, leaving them less visible at night or in inclement weather, increasing risk on the road. Lt Col Sitzabee and three of his Master's Students from GEM11 studied the effect of snow removal and de-icing operations on several paint types and in multiple states. Their regression models show that each snow removal operation shortens the service life of these markings by more than one month. Their findings were published in a peer-reviewed journal article in the Journal of Transportation Engineering and another peer-reviewed article is currently under review with the Journal of Public Works Management and Policy. Overall, Lt Col Sitzabee's initial efforts in obtaining FRC Start-Up funding for one project has yielded exceedingly high results, supporting five MS students' research projects (3 GEM-11 and 2 GEM-12) and collaborating with AFRL, AFCESA, and NCDOT (NCDOT ~\$1.8 Million in data and AFCESA ~\$12,000). Congratulations to the entire Asset Management Team for this flourishing research stream.

AFIT Alum Back on Earth

Welcome back to Earth, U.S. astronaut, Mike Fossum (M.S. Systems Engineering, 1981)! He and the rest of the Expedition 29 crew landed safely in Kazakhstan following 6 months at the International Space Station.

Read Mike's blog <<http://blogs.nasa.gov/cm/newui/blog/viewpostlist.jsp?blogname=Living%20the%20Dream>> or NASA's article <http://www.nasa.gov/mission_pages/station/living/index.html> for exciting details.

AFIT Alum Colonel David Hicks (M.S. Systems Engineering, 2004) Takes Command of 53rd Wing

In July of this year Maj. Gen. James Hyatt, Commander U.S. Air Force Warfare Center, presided over a change of command ceremony where AFIT's own Col David Hicks took command from Col. Michael Gantt. The 53rd Wing serves as the Air Force's focal point for operational test and evaluation of armament and avionics, aircrew training devices, chemical defense, aerial reconnaissance improvements, electronic warfare systems, and is responsible for the QF-4 and subscale drone programs. The wing tests every fighter, bomber, unmanned aerial vehicle, and weapon system in the Air Force inventory and operates in 22 locations in 12 states across the country.

** STUDENT SPOTLIGHT **

Students Use Downtime and Engineering Skills to Give Back

Student members of Sigma Iota Epsilon partnered with the Society of American Military Engineers and Rebuilding Together to build their second wheelchair ramp for the local community. The recipient of the ramp was Bill Elliott of Troy, OH. Mr. Elliott is a wounded warrior who served with the US Army. The addition of the ramp at the Elliott house has allowed him to receive a motorized cart from the hospital. The students used a unique design to allow for further modifications to the Elliott residence. Planned future additions include a chair lift for second floor access and a new bathroom on the first floor. The SIE group aims to be one of many execution arms supporting the Dayton Service Engineering Collaborative, a non-profit organization recently established to join engineering entities across the Miami Valley.



Captain Kevin Ochs, Major Vhance Valencia, and MSgt (retired) Herman Quintero take turns breaking rock and man-handling the auger.



Captains Lindsay Jaszkwiaik and TJ Gabrielson lead the decking crew.

Marines Love ENV!

ENV recently received a letter from an senior officer alumnus of the class of '96. Then "Captain" Tony Ference's thesis work won a school level award as one of the best theses among his graduating class of 120 students in 1996. The work was immediately implemented at Camp Pendleton, CA during his next assignment and was published in the Military Operations Research Journal. Now "Colonel" Tony Ference writes that his experience in ENV while earning his MS in Engineering and Environmental Management has served him well in making the kind of decisions required to make promotion. Tony is living proof that a US Marine can choose to come to ENV for a valuable degree and find it a valuable stepping stone to make O-6. Congratulations Tony!

Maj Tony Ference (Class of '96) in the Philippines keeping terrorists on the run.



Hails and Farewells

HAILS



Major Jonathan "Dan" Ritschel arrived at AFIT in August 2011 as the Director, Graduate Cost Analysis (GCA) program. Maj Ritschel completed his PhD in economics at George Mason University in 2011. Prior to that, Dan held a variety of cost analysis positions at Air Force Space Command (AFSPC), Aeronautical Systems Center (ASC) and Standard Systems Group (SSG). His research interests include public choice, the effects of acquisition reforms on cost growth in DoD weapon systems and economic institutional analysis.



Lt Col Brent Langhals joined the ENV faculty in June 2011 after successfully completing an AFIT faculty pipeline fellowship at the University of Arizona where he was awarded his PhD in Information Systems on May 13, 2011. His research interests include vigilance, human-computer systems, and decision support. Lt Col Langhals is also an AFIT alumni having received his MS degree as part of the 2001 GIR-01M class.



Dr. Meejeong Kim joins ENV in January as a visiting scholar under the Engineer and Scientist Exchange Program. Dr. Kim has a Ph.D. in Environmental Engineering from Texas A&M. She is the Interim Director of the Environmental Preservation Team at the Korea Ministry of National Defense and will be here for at least one year, working with ENV's Environmental Engineering and Science program students and faculty.

Miss Rebecca Taylor rejoins our program as a Research Assistant and Technical Writer. She received her Bachelor's degree from the University of North Carolina in Chapel Hill, and is the Program Facilitator for the multi-discipline Systems Engineering Efficiency Research Project.

FAREWELLS



Dr. Som R. Soni, Associate Professor of Systems Engineering will be leaving AFIT to take over as President and CEO of AdTech Systems Research Inc, Beaver creek, OH (photo at left)

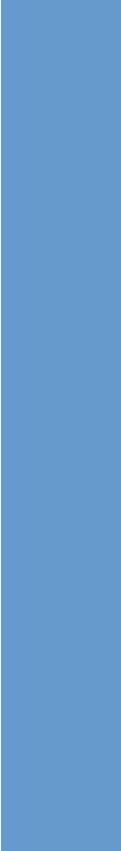
Lieutenant Colonel Eric Unger retired from the United States Air Force.

Mr. Mack Everly, Student Assistant, graduated from Wright State University this Fall and has moved on to greater things—goodluck to him!

Systems and Engineering Management Department

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Managing Editor,
Ms. Penny S. Spainhower

Production Editor,
Mrs. Karen P. Dobbyn

ENVelope, please

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interested in publishing readers' com-
ments, notes, updates, feedback, etc.

This is similar to Editor's Mailbag in larger publica-
tions. Please send your inputs to
penny.spainhower@afit.edu.

We are looking forward to reading from you.

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