From: "Crowley, Kevin" <KCrowley@nas.edu>
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Date: Monday, March 29, 2004 02:25 PM
Subject: Changes to the Committee on Safety and Security of Commercial Spent Nuclear Fuel Storage

Dear Colleagues and Friends:

I wanted to let you know about several changes to the membership of the Committee on the Safety and Security of Commercial Spent Nuclear Fuel Storage. Drs. John Wreathall and Tony Cox have resigned from the committee, and two additional members have been appointed by Dr. Bruce Alberts (NAS president and National Research Council chair): Drs. Nancy Cooke and Gordon Johnson. Dr. Cook brings expertise in human factors and team performance. Dr. Johnson brings expertise in penetration formation and penetrator-target interactions. I have attached short bios for these two new members below FYI.

As always, you can obtain up-to-date information about this study by consulting our Current Projects web page. The address for the SNF committee page (if you don't want to take the time to navigate the menus) is

http://www4.nas.edu/webcr.nsf/5c50571a75df494485256a95007a091e/b673ff43a7c7fd4f85256e2f004d5baa?OpenDocument

Kevin

Nancy J. Cooke (Ph.D., cognitive psychology) is an expert in the development, application, and evaluation of methodologies to elicit and assess individual and team knowledge. She is currently a professor in the applied psychology program at Arizona State University East. She also holds a National Research Council Associateship position with Air Force Research Laboratory and serves on the board of directors of the Cognitive Engineering Research Institute in Mesa, Arizona. Her current research areas are the following: cognitive engineering, knowledge elicitation, cognitive task analysis, team cognition, team situation awareness, mental models, expertise, and human-computer interaction. Her most recent work includes the development and validation of methods to measure shared knowledge and team situation awareness and research on the impact of cross training, distributed mission environments, and workload on team knowledge, process, and performance. This work has been applied to team cognition in unmanned aerial vehicle and emergency operation center command-and-control. She contributed to the creation of the Cognitive Engineering Research on Team Tasks Laboratory to develop, apply, and evaluate measures of team cognition. She has authored or co-authored over 70 articles, chapters, and technical reports on measuring team cognition, knowledge elicitation, and human-computer interaction.

Gordon R. Johnson (Ph.D., structures), is an expert in penetration mechanics and computational mechanics. He is currently a senior scientist and manager of the solid mechanics group at Network Computing Services. His recent work has included the development of computational mechanics codes linking together finite elements and meshless particles, an abrasion algorithm for penetration into concrete, a dynamic crack

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propagation algorithm, and a robust mixed element algorithm for severe distortions. He has also developed computational material models to determine the strength and failure characteristics of a variety of materials subjected to large strains, strain rates, temperatures, and pressures. His work for the U.S. Departments of Energy and Defense has included explosively formed penetrator formation, shaped charge formation, projectile-target interaction for a wide range of projectiles and targets, and hard target penetrator response into concrete structures. He was the chief engineering fellow for 35 years at Alliant Techsystems (formerly Honeywell). He has served as a technical advisor for university contracts with the Army Research Office, an industry representative for its strategic planning, and is a member of the founding board of directors for the Hypervelocity Impact Society.

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