

September 22nd 2009 (Tuesday)

MCM Elegante, 2020 Menaul NE, Albuquerque NM 87017

5:30 - 6:00 PM Social, 6:15 Dinner, 7:00 Awards Ceremony, 7:15 Talk

Energy & Global Security in the 21st Century

Dr. A. D. Romig, Jr.

Executive Vice President and Deputy Laboratories Director

Chief Operating Officer

Sandia National Laboratories

Globalization and geopolitics set the context for energy and global security. Increasing interdependence will heighten the impact of economic and energy shocks, increase requirements for decision-making speed, and raise the cost of mistakes. In this complex environment, the U.S. needs a broad range of coalitions to provide effective security, especially as the character and nature of global conflict continue to evolve. Security dimensions include nuclear proliferation containment as well as protecting energy infrastructure supply chains and oil and natural gas supplies, with the Persian Gulf and Russia together holding over half of the world's proven oil and natural gas reserves.

Between 2005 and 2030 world energy demand and carbon emissions may grow by half, yet stabilizing man's influence on climate at current levels would require cutting annual carbon emissions by more than half. This is a daunting but critical challenge, since major climate change could create water and food shortages, pushing marginally stable countries over their tipping points and leading to mass migrations and conflict. Fortunately, emerging advanced technologies and systems may resolve these energy and carbon-related security problems over the longer term, but they will take time to develop. In the meantime, maintaining our energy and global security will require international flexibility, cooperation, and partnering on many fronts.



Besides his numerous accomplishments in the materials community, Dr. Romig is a member of the National Academy of Engineering and is active on a number of National Academy of Sciences/National Research Council Committees and Boards. He is a Fellow of the American Association for the Advancement of Science (AAAS) and TMS. AI is also a Fellow and former President of ASM-International and a Senior Member of IEEE.

Dr. Romig received his B.S., M.S., and Ph.D. degrees in Materials Science & Engineering from Lehigh University in 1975, 1977, and 1979, respectively.

Menu

Entrée Choice: (A) Roast Beef with Red Potato (B) Roasted Turkey with Mashed Potato (C) Veggie Lasagna

Each menu choice is served with Dinner Rolls, Salad, Vegetables, Desert and a Beverage (ice tea, coffee, or soft drink)

Cost: ASM Members (Friends and Family): \$16, Students: \$8

Please RSVP by Friday September 18th 2009 with your choice of Entrée to:

Somuri Prasad (svprasa@sandia.gov or 844-6966)

Payment by Check or Cash
