

NCC Member Focus

Michael Karmis has been an active member of the NCC for more than a decade. He has served on various committees and working groups addressing CCS/CCUS initiatives and reports.
Thank you for your service, Michael!

Dr. Michael Karmis joined the Department of Mining and Minerals Engineering at Virginia Tech in 1978 as an Assistant Professor. Following promotions through the academic ranks, he was appointed the Stonie Barker Professor of Mining and Minerals Engineering in 1992 and served as head of the department from 1987 to 1998. He became the Director of the Virginia Center for Coal and Energy Research at Virginia Tech in 1998. His prior academic experience was with universities in Scotland and Greece.

Michael's expertise is in the areas of geomechanics and mine systems, health and safety, carbon management, energy planning, and the sustainable development of energy and mineral resources. He has authored or co-authored over 180 scientific papers and has directed more than 60 major research projects valued at more than \$55 million, funded by federal and state agencies, foundations and the private sector.

Michael has a B.S. (1971) and a Ph.D. (1974) in Mining Engineering from the University of Strathclyde in Scotland. A Professional Engineer (P.E.) in the USA and a *Eur Ing* in Europe, Michael is an active consultant to the global mining and energy sector, academic and research institutions, government agencies, engineering companies, and financial and legal firms. His international experience includes collaborations with universities, research organizations, energy and minerals industries, and operations and facilities throughout the world.

Michael served as the 2002 President of the Society for Mining, Metallurgy and Exploration (SME) and as the 2008 President of the American Institute of Mining, Metallurgical and Petroleum Engineers (AIME). He was the 2002 President of the international Society of Mining Professors (SOMP)-Societät der Bergbaukunde and served from 2005 to 2012 as the Society's Secretary General.

Michael has received numerous awards during the course of his career, including the first Award for Sustainable Coal Development from the Coal Industry Advisory Board (CIAB) of the International Energy Agency in 2003, "For his contributions to mining education and improved mining technologies ...contributions to mine health and safety... [and] contributions to improving the environmental performance of coal mining." He is an Honorary Member of AIME, a Distinguished Member of SME, a Fellow of the Institute of Quarrying, and a Fellow of the Institute of Materials, Minerals and Mining.



MICHAEL KARMIS **DIRECTOR VIRGINIA CENTER** **FOR COAL & ENERGY RESEARCH** **VIRGINIA TECH**

Virginia Tech is the Commonwealth of Virginia's most comprehensive public university and its leading research institution, with over 250 undergraduate and graduate degree programs, more than 33,000 students, and a research portfolio of \$504 million. The university fulfills its land-grant mission of transforming knowledge to practice through technological leadership and by fueling economic growth and job creation locally, regionally, and across Virginia.

The Virginia Center for Coal and Energy Research (VCCER) is a Commonwealth of Virginia research center created by an act of the General Assembly and located at Virginia Tech. The mission of the VCCER is to conduct interdisciplinary research and provide unbiased public information on all topics involving the coal, gas and the power generation industries, including consumer issues. The VCCER/VT has been conducting research in CCS/CCUS for almost 15 years.

The VCCER is the home of the Appalachian Research Initiative for Environmental Science (ARIES). Established in 2011, ARIES was created to investigate the impacts of energy production in the region and is funded and supported by industry, but directed solely by researchers. ARIES in turn funds an independent research program with a focus on the wide dissemination of results.



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