

# 50th Annual CONCRETE CONFERENCE

March 7, 2014

SDSM&T - Rapid City, SD

**David Darwin, Ph.D., P.E., FACI, F.SEI, Dist.M.ASCE**



Dr. David Darwin is the Deane E. Ackers Distinguished Professor and Chair of the Civil, Environmental, and Architectural Engineering Department at the University of Kansas, Lawrence, KS, where has been a member of the faculty since 1974. A past president of the American Concrete Institute, his research focuses on improving the durability of concrete structures by minimizing cracking and improving the corrosion resistance of reinforcing steel, and on the bond strength of reinforcing steel to concrete. He is a licensed professional engineer and international consultant.

**Venkataswamy Ramakrishnan, Ph.D., FACI**



Prof. V. Ramakrishnan is the Regents Distinguished Professor at the Technological University of South Dakota. He graduated with two D.I.C degrees and a Ph.D. from the Imperial College of Science and Technology, University of London in 1960.

He has done extensive research and applications using concrete fiber composite for the past 40 years. He has been consultant to all the major fiber producers (both steel and synthetic) in U.S.A. He has authored or co-authored 3 books and more than 400 papers of which more than 10 papers were on non-destructive testing of concrete. He has done a lot of research and has field experience in using non-destructive testing techniques for evaluating concrete.

**Peter C. Taylor, Ph.D, P.E.**



Dr. Peter Taylor has been employed at the National Concrete Pavement Technology Center at Iowa State University for six years. During that time he has been involved in managing and conducting research projects and programs investigating materials related aspects of concrete pavements.

Dr. Taylor is actively involved in teaching applied concrete materials technology to practicing engineers. He is a Professional Engineer, registered in Illinois. He is an active member of ISCP, TRB, ASTM and ACI and is Vice-President of the ACI IA Chapter.

**Clifford N. MacDonald, FACI**



Mr. Clifford MacDonald obtained his BSCE and MSCE degrees at South Dakota School of Mines & Technology. His professional experience has included engineering and construction project management at Dow Corning and 3M Corporations. While at 3M, Mr. MacDonald worked in new product development and patented "structural macro synthetic fiber reinforced concrete." He founded Vigilant Enterprise LLC to provide engineering support for customer products in the concrete market. Mr. MacDonald is director of engineering at FORTA Corporation and responsible for worldwide support of fiber reinforced concrete (FRC) products for portland and asphalt cements.

**Dan Johnston, SDDOT Retired**



Mr. Dan Johnston has a BS and MS in Chemistry from SDSM&T and has worked as a Research Chemist at Dacotah Cement and a Research Engineer at SDDOT. He is now happily retired aside from occasional consulting on ASR issues and has recently published a book Stonehenge Unhinged which delves into Neolithic materials issues.

**Jerzy Z. Zemajtis, Ph.D., P.E. – UPDATED CHANGE**



Dr. Jerzy Z. Zemajtis is a Senior Engineer at the American Concrete Institute. His role at ACI is to provide technical and administrative support to ACI's Technical Committees. He received his BS and MS in civil engineering from the Technical University of Gdansk, Poland and his PhD in civil engineering from Virginia Tech. He worked as a Structural Engineer in Virginia Beach, VA and Vancouver, Canada, and as a Civil/Materials Engineer at Construction Technology Laboratories in Chicago, IL before joining the ACI Engineering Department in 2010. He is a registered engineer in Washington and British Columbia.

**Tony Kulesa, SDSM&T, EIT**



Mr. Tony Kulesa is a Civil Engineering graduate student at the South Dakota School of Mines & Technology. His studies focus on structures, and his research investigates composite materials and heat transfer for space applications. He has held many student officer positions for various student organizations, namely the American Society of Civil Engineers, Steel Bridge team, and Engineers & Scientists Abroad, and co-founded the Graduate Student Society. His past research in concrete includes the ACI pervious concrete design competition and a study of lunar regolith concrete possibilities.

**Karen Schaefers, SDSM&T, EIT**



Ms. Karen Schaefers is currently a Civil & Environmental Engineering graduate student at SDSM&T specializing in geotechnical studies. Her previous research includes developing parameters for the Mechanistic-Empirical Pavement Design Guide using South Dakota materials in addition to improving the prediction of performance of asphalt mixes. Her current research focuses on identifying the stabilizing effects of an agricultural byproduct on coarse and fine-grained local soils with liquid stabilizers. Karen has been an active member of the student chapter of the ASCE serving multiple positions on the officer team as well as captain of the concrete canoe team.