



Meeting Announcement

Speaker: Dave Dickinson, Professor Emeritus of Welding Engineering, FASM, FAWS

When: Wednesday, January 21

Where: Berwick Manor, 3250 Refugee Road, Columbus, OH 43232

Schedule: Social: 6:00 – 6:30, Dinner: 6:30 to 7:15, Presentation: 7:15 – 7:45

Cost: Members and Guests: \$20 Students: \$5

Topic: Helping the State of Ohio Bond Public Colleges to Business and Economic Growth

Abstract In these challenging economic times, the State of Ohio has been concentrating on economic development objectives. One part of this is “an aggressive, coordinated, and highly ambitious campaign to transform the state’s higher-education system into a driver of economic growth”.¹ The goal is to provide Ohio Businesses with highly skilled technology and college trained workers through a coordinated effort of educational institutions, Ohio’s Job and Family Service and One Stop organizations and the local businesses themselves.

In manufacturing, and particularly the materials joining job functions, the link between schools and industry is not as strong as it should be. The National Science Foundation established an Advanced Technological Education Center in Welding Engineering Technology called the Weld-Ed Center to address this link. This center is a national partnership of colleges, universities, professional societies, government, and private industry committed to increasing the number and quality of welding and materials joining technicians to meet industry demand. Weld-Ed performs continuous workforce assessment to ensure objectives are on target and specifically designed to meet industry needs. Weld-Ed utilizes career pathway development to improve degree programs for future welding technicians, develops and disseminates upgraded educational materials for current students and workers, establishes technologically current teaching laboratories at partner institutions, and provides professional development programs for K-16 educators.²

In order to assess economic conditions and needs of local industry, Weld-Ed has established local panels of industry, government, and educational institutions called a Regional Skills Panel. The objective of these panels is to collect economic and educational data through published literature and industry survey visits particular to the local community and thus form the bond between industry and the educational providers.

¹ Fischer, Karin, “Ohio’s Public Colleges Lure Businesses with the Promise of a Skilled Work Force,” The Chronicle of Higher Education, Nov 14, 2008.

² Weld-Ed Mission Statement



This presentation will review some of the efforts of the Central Ohio Skills Panel.

Biography

Dr. Dickinson received his B.S. degrees in metallurgical engineering from Rensselaer Polytechnic Institute in 1967, and a Ph.D. degree in welding metallurgy in 1972. He has been associated with Ohio State University (OSU) since 1984. Dr. Dickinson is a Professor Emeritus in the College of Engineering and before retirement in 2007 was a full professor of Welding Engineering. He continues to teach courses on a part time basis, ranging from the Freshman Introduction to Engineering Sequence to Graduate Level Courses in Resistance Welding and Welding Metallurgy. Since his retirement, he has been a consultant in the National Science Foundation Weld –Ed Advanced Technological Education Center.

From 1993 – 1999 he was the Associate Dean for Academic Affairs in the College of Engineering. In this position, he was responsible for monitoring the quality of all engineering programs and students within the college. It was during his term of office that the Freshman Engineering Program was modified to include hands-on and problem solving engineering, contributing to an increase in first year student retention from less than 40% to over 70%. It was during this same period that the inter-disciplinary student projects were established leading to the intercollegiate competitions such as the Formula Lightning and Buckeye Bullet which have set international records.

From 1987 – 1991 he was Department Chairperson in the Welding Engineering Department. In January 1985 he helped establish the Edison Welding Institute (EWI) as a special assignment for the University and also served as its first Director of Research until July 1987. EWI is one of the largest company membership based cooperative research centers in the United States with over 200 Fortune 500 company members.

Prior to joining the University, Dr. Dickinson worked for Republic Steel Corporation (1974 – 84) and served as Section Chief of the flat rolled products and welding research groups; and for Olin Corporation (1972 – 74) as engineering specialist for continuous casting and solidification research studies.

Dr. Dickinson has been honored with numerous awards, including the AWS McKay-Helm Award, A.F. Davis Silver Medal Award, the Merit Award from the James F. Lincoln Arc Welding Foundation, International Metallographic Award, AWS District Meritorious Award, and the AWS Plummer Memorial Education Lecture Award. In addition, he is also listed in Who's Who in the World, Who's Who in America, Who's Who in Finance and Industry and several other notable listings.

An AWS member since 1967, Dr. Dickinson served as the AWS President in 1992. He is also a Fellow of the American Welding Society, a Fellow of ASM International, and has served on The Welding Research Council, The International Institute of Welding, The Metallurgical Society of AIME, and the Welding Institute where he was a Fellow and a former member of the Research



Board. In addition, Dr. Dickinson has served in the Gateway Coalition of Colleges participating in the revamping of undergraduate Engineering Education and on the State of Ohio Project Lead the Way Board which is bringing engineering education into middle and high schools. He serves as the Advisory Board Chair for the new National Academy Foundation Engineering Academy at East High School in Columbus, Ohio. Dr. Dickinson also serves on the State of Ohio Kairos Prison Ministry Board.

He has extensive experience in welding metallurgy, resistance welding, welding process and control techniques, welding production line management, welding in space and entrepreneurship. He is an internationally known lecturer and a frequent contributor of papers on resistance welding and welding metallurgy and has written several texts and handbook chapters on resistance welding, welding design, ferrous alloy weldability and engineering education. In addition, he has also provided consulting services on manufacturing techniques and failure analysis for over 40 companies.

Please RSVP by contacting me at gregory.thomas.quickel@dnv.com (614 761 1214) or by web reservation (<http://com-dot.com/newap/activities.php?d=114627&v=411>) by 4:00 p.m. on Thursday, January 15.

Best Regards,

Greg Quickel
ASM Columbus Chairman