

2013 **FIRST**[®] **LEGO**[®] LEAGUE CHAMPIONSHIP TOURNAMENT JUDGES

FLL CHAMPIONSHIP TOURNAMENT CO-JUDGE ADVISOR

Kim McDonald, IPFW, Associate Dean, College of Engineering, Technology & Computer Science and Professor of Organizational Leadership and Supervision
B.A.C. Communication, Bowling Green State University
M.A. Communication, University of South Florida
Ed.D. Adult & Community Education, Ball State University

Dr. McDonald has been a faculty member at IPFW for over twenty years. She is the associate dean for the College of ETCS. Prior to this appointment, she was chair of the Division of Organizational Leadership & Supervision. She has taught a variety of leadership courses at both the graduate and undergraduate level. Her research focuses primarily on career development issues. Currently she is serving as Editor-in-Chief for the academic journal, *Advances in Developing Human Resources*. 2013 marks her tenth year in judging.

PROJECT PRESENTATION JUDGES

FLL Championship Lead Project Presentation Judge

Chris Douse, First-Year Experience Coordinator, Indiana Tech

B.A. Communication, IPFW
M.S.M., Indiana Wesleyan University

This is Mr. Douse's eleventh year as a judge and his ninth year as Lead Judge in the project category.

Scott Armstrong, Management consultant

B.A. Physics, William Jewell College
M.S. Physics, University of Missouri
Ph.D. Optical Engineering, University of Rochester

Dr. Armstrong has spent his 33 year career in advanced product development for space based electro-optical and rf/microwave sensor systems. He is retired from ITT where he held leadership positions in space systems engineering, program management and business development. Earlier in his career, he held a number of engineering management positions in the US government, at The Aerospace Corporation and Aerojet Electronic System Division in Los Angeles where he and his family lived for 17 years. Dr. Armstrong has been involved in every aspect of product development including concept development, systems engineering, design, integration and test as well as user support. Dr. Armstrong has been involved with FLL for 13 years and this is his eleventh year as a judge.

Michael Columbia, IPFW, Associate Professor, Department of Chemistry

B.S. Chemistry, Indiana University South Bend
Ph.D. Analytical Chemistry, Iowa State University

Dr. Columbia has taught courses in general chemistry and analytical chemistry at IPFW for twenty years. His research projects have probed chemistry at solid surfaces with emphasis on catalysis and electrodeposition. He is also interested in developing new laboratory experiences for introductory courses that expand the uses of digital data acquisition and demonstrate the role chemistry plays in producing color in works of art. Dr. Columbia also serves as the Judge Coordinator of the Northeast Indiana Regional Science and Engineering Fair. This is Dr. Columbia's seventh year as a FLL judge.

Gary R. Dostal, Retired – Verizon Manager of Employee Communications

B.S., M.A, ABD Journalism & Communications, University of Minnesota

Mr. Dostal is a Verizon retiree with twenty-five years as a public affairs professional with managerial experience in both public relations, lobbying and employee communications. Since retiring Mr. Dostal has taught at the University of Saint Francis and Ivy Tech Community College. Prior to his telecommunications career, he taught for thirteen years in higher education at the University of Wisconsin - River Falls, St. Cloud State University and Normandale Community College where he also was the Director of Forensics and coached several award winning speech teams. This is Mr. Dostal's 11th year as a judge in the project category.

Pavan Karrah, Assistant Professor, Trine University

Ph.D in Mechanical Engineering /

John McGauley, Recorder, Allen County
B.S. Journalism, Ball State University

Mr. McGauley was elected in 2006 to a four-year term as Allen County Recorder and re-elected in 2010. He previously served as Allen County Public Information Director, where he oversaw efforts to expand access to County Government, including projects to launch a new County Internet site and to begin broadcasting County government meetings on cable television. A former journalist, he has written about science and technology for Fort Wayne Monthly, The Fort Wayne News-Sentinel, Florida Today, Air & Space Magazine and Space.com. This will be his ninth year as a judge in the project category.

Paresh Mishra, Assistant Professor, IPFW Division of Organizational Leadership and Supervision
Ph.D. Indiana University, Bloomington

Dr. Mishra is an Assistant Professor in the Division of Organizational Leadership and Supervision of IPFW. He earned his Ph.D. from Indiana University, Bloomington. His research examines the role of emotions in management and leadership. He has worked in the corporate sector at Tata Motors, India (the largest automobile company of India) for close to 5 years. He has also worked with children of various age groups for about 8 years.

John Renie, Associate Professor of Mechanical Engineering at Indiana Tech; Adjunct Professor in Mechanical Engineering at IPFW; Adjunct Professor in Math and Science at IVY Tech; Automotive Driveline Consultant
BSAE, MS, Ph.D., Purdue University

Dr. Renie studied aerospace engineering at Purdue University majoring in the area of thermal sciences in general and rocket propulsion in particular. During the period of time between 1984 and 1995, he taught at the University of Illinois and Indiana University Purdue University Fort Wayne (IPFW).

In 1995, he left the academic environment to work for the Spicer Outdoor Power Equipment Components Division of Dana Corporation located in Fort Wayne, IN. His primary responsibility at Dana was as Lab Manager, with responsibility for conducting quality assurance and product durability tests on drive train components involved in leisure and utility vehicles. He also had the responsibility of conducting finite element analysis on drive train components as well as NVH measurements. He was employed until 2008 by Torque Traction Technologies, Inc., Dana Corporation, Maumee, Ohio. He is a past member of the Fort Wayne chapter of the Society of Automotive Engineers (SAE) serving as their Chairman for one year and as a Governing Board member. He has participated in FLL since 2000 and has also served as a judge for the Northeast Indiana Regional Science and Engineering Fair. Since 2008, Dr. Renie has returned to academia, currently as an Associate Professor of Mechanical Engineering at Indiana Tech. His major focus is teaching in the thermal sciences and energy engineering area.

Mary K. Ross, Field Preceptor, Indiana University School of Social Work, University of St. Francis
BSW, MSW, LCSW

Mary K. Ross, MSW, LCSW has been involved in *FIRST LEGO* League as a judge since 2010 for both Project and Finalist judging. Ms. Ross also participates as a judge for Indiana Future City and the Northeast Indiana Science and Engineering Fair. Ms. Ross has been a clinical social worker 28+ years with youth and families, medical and psychiatric social work in HIV and cancer, and youth education projects. She currently works for the Indiana University School of Social Work as liaison and field supervision faculty for the IUSW-Fort Wayne MSW program.

ROBOT DESIGN JUDGES

FLL Championship Lead Robot Design Judge

Edward M. DeWitt, Lead Test Engineer at GE and Associate Faculty at IPFW
B.S.M.E. and M.B.A. from IPFW

Mr. DeWitt has been involved in the testing arena for over 18 years, working on validating designs of AC/DC motors and commercial vehicles. He has a commercial driver's license, and holds a patent for instrumented testing of vehicle steering systems. He is a former chairman of two subcommittees in the Society of Automotive Engineers Truck and Bus organization. He has published papers through SAE and the Midwest Business Administration Association. In addition to his employment at GE, Mr. DeWitt teaches an Electrical and Computer Engineering Technology class at IPFW focusing on instrumentation, data acquisition, and data analysis. He teaches his students the LabVIEW programming language, uses it at GE, is a Certified LabVIEW Associate Developer, and co-founded a local user's group based on the

language. He is also an organizer of FortLUG, the user group for adult fans of LEGO in the Fort Wayne area. This is his sixth year judging at the Championship level.

Kitty Bellis, Coach Consultant and NXT/EV3 Instructor
B.S. Computer Science, Athens State College, Athens, AL

As the former coach of the award winning team ZBOTs from 2005 - 2008, Ms. Bellis has continued to support FLL activities as the coach clinic instructor. She has helped with Science Central Regional and the Indiana Championship Tournaments for the past five years. Ms. Bellis has also worked on curriculum for Science Central's Advanced NXT Summer Camp, Saturday Morning FLL mini-camp with the Indianapolis Children's Museum, and a guest speaker with the Starbase program.

Anamarie Crone, Engineering Intern, Scientific Biomedical Microsystems
B.S. Computer Engineering

Ms. Crone has three years of programming experience, electronics experience, and several years of FLL judging experience at the Science Central Qualifying Tournament at Indiana Tech. She has been volunteering in some capacity for FLL since college.

Jaydip Desai, Ph.D. Assistant Professor of Biomedical Engineering, Indiana Institute of Technology, Fort Wayne, IN
M.E. and Ph.D. Biomedical Engineering, Stevens Institute of Technology, Hoboken, NJ
Graduate Certificate - Robotics & Control, Mechanical Engineering, Stevens Institute of Technology, Hoboken, NJ
B.Tech Biomedical & Instrumentation Engineering, U.V. Patel College of Engineering, Kherva, Gujarat, India

Dr. Desai is an Assistant Professor of Biomedical Engineering at Indiana Institute of Technology. Dr. Desai's research interests include Biorobotics, Bioinstrumentation and Human-Machine Interface. Recently, he has started a Human-Machine Interface laboratory at Indiana Tech.

Wayne Doenges, 3D Draftsman, Parker Hannifin
Associate degree, Mechanical Design

Mr. Doenges currently works for Parker Hannifin in Hicksville as a 3D Draftsman using Pro/E and Inventor. He is a retired sergeant in the U.S. Air Force. Mr. Doenges has been a mechanical engineering mentor for FRC Team 535 and now FRC Team 1501 for 14 years.

Michael Kanning, Medical Protective
BS, Electrical Engineering, Purdue Fort Wayne
MBA, Indiana University Fort Wayne

Michael Kanning received his BS in Electrical Engineering from Purdue University in Fort Wayne in 1992, and his MBA from Indiana University in Fort Wayne in 1999. Mr. Kanning has more than 25 years of IT experience and a wealth of leadership expertise. He has served as IT Director at several Fort Wayne companies and presently works as a Project Manager at Medical Protective. His volunteer experience includes founding President of Young Leaders of Northeast Indiana and he is currently President-Elect for the IPFW Alumni Association.

Andrea Mitofsky, Trine University, Assistant Professor, Electrical and Computer Engineering
B.S., M.S., and Ph.D. Electrical Engineering, University of Illinois at Urbana-Champaign

Ms. Mitofsky is currently an Assistant Professor in the Electrical and Computer Engineering department at Trine University in Angola Indiana. She has been at Trine University since 2008.

Adam Renie, Engineer, Attero Tech, LLC
B.S. Computer Engineering, Purdue University

Mr. Renie is currently a hardware design engineer at Attero Tech, LLC in Fort Wayne. He has worked at Attero Tech since 2007 and became a part owner in 2011. He graduated from Purdue University in 2007 with a B.S. in computer engineering.

Robert Sedlmeyer, Associate Professor of Computer Science, IPFW
BS Computer Science, Purdue University
MS Computer Science, Purdue University

Professor Sedlmeyer teaches at all levels of the Computer Science program, specializing in software engineering. For the past five years he has directed the Adventures in Computing for Teens outreach program, which introduces teens to programming and the world of computing. He is currently working with ETCS Outreach Director, Carol Dostal, on a software tool for tracking and assessing FIRST LEGO League teams.

CORE VALUES JUDGES

FLL Championship Team Work Head Judge

David Brumm, Retired Teacher, Fort Wayne Community Schools
B.S. Psychology, United States Air Force Academy
Meteorology major, San Jose State University
M.S. Education, IPFW, Fort Wayne

Mr. Brumm was a teacher at South Side High School in Mathematics, General Science, Computer Science, Government, International Baccalaureate Theory of Knowledge, and the Technology Coordinator 1985-2006. From 1983-1986, he taught at Memorial Park Middle School in the areas of Mathematics, Science, Physical Education, and Home Economics. In addition, Mr. Brumm founded South Side's FIRST Robotics team in 2001. Mr. Brumm has worked with the VEX Robotics Summer Exploration Camp at IPFW for four years. This is his tenth year volunteering as a tournament judge. In retirement, he works with ACRES Land Trust to protect and preserve nature in a tri-state area.

Anna Baer, Construction Estimator, Blundall Associates, Inc.
BS Construction Engineering Technology, IPFW
AS Architectural Engineering Technology, IPFW

Ms. Baer is a construction estimator with Blundall Associates, Inc in Fort Wayne, IN. Since starting at Blundall in 2009, she has worked on all types of projects, including commercial, government, and educational, to assist in determining the cost of projects before they go out to bid. Ms. Baer is involved with the Society of Women Engineers Northeast Indiana and is currently serving as Outreach Chair. She has volunteered at the Championship Tournament since 2006.

Rebecca Gallagher, IPFW, Associate Faculty, Dept. of Communication
B.A. Mass Communication, Taylor University
M.A. Professional Communication, IPFW

Mrs. Gallagher began working with IPFW's FLL team the first year it was held here while employed at IPFW's University Relations & Communication office. She has taught online communication and public relations courses since 2001, and has continued to help with the FLL tournament in a variety of positions each year. This will be Mrs. Gallagher's 13th year working with the Championship FLL tournament.

Maria Hines Assistant Professor in Nursing for Ivy Tech Community College Northeast
BS Nursing, Fairfield University, Fairfield, CT
MS Nursing, Ball State University

Maria Hines is a certified critical care nurse (CCRN) and a member of Sigma Theta Tau International Honor Society of Nursing, the American Association of Critical Care Nurses, the Oncology Nursing Society, and the National League of Nursing. Ms. Hines joined the full-time faculty at Ivy Tech in 2008 as an assistant instructor in the School of Nursing. She had been an adjunct instructor previously for fifteen years. She currently is an Assistant Professor in the School of Nursing teaching medical/surgical and critical care nursing didactic and clinical. Ms. Hines is the recipient of the Ivy Tech Community College-Northeast, President's Award for Excellence in Instruction for 2013. The President's Award recognizes those instructors who have a positive impact on students and who best personify the mission of Ivy Tech.

Robin Hullinger, Education Consultant

Barbara Kuntz, Teacher, Fort Wayne Community Schools
B.S. Art Education, Ball State University
M.S. Education, Indiana Wesleyan University

Barbara Kuntz is the visual arts teacher at Fairfield Elementary. She has taught visual arts on the elementary level for Fort Wayne Community Schools for twenty years. She graduated with a bachelor's degree in art education from Ball State University. In 2011 Ms. Kuntz completed her master's degree in education from Indiana Wesleyan University.

Mrs. Kuntz has been involved with FLL nearly a decade. She has served as the head judge at the Science Central Indiana Tech qualifying tournament for three years and enjoyed serving in a variety of positions at the Championship Tournament, including core values judge and score keeper's assistant.

Darlene Markovich, FRC Mentor & Former FLL Coach
B.S. Computer informations Systems Analyst and Design, Purdue

Currently working at home, Ms. Markovich has been involved with FIRST, going on eleven years. She was a School Sponsor for the Munster Lego League for nine years and ran several FLL teams. Her team won three Champions Awards at the Indiana Championship Competition. Ms. Markovich is currently a mentor for the second year with the FIRST FRC Team 71.

Sharon Parnin, IPFW Continuing Lecturer, College of Education and Public Policy
Ms. Parnin moved to Fort Wayne, IN to open Science Central and her first office was in a construction trailer! Currently, she is a continuing lecturer in the College of Education and Public Policy teaching science education courses. Ms. Parnin's doctoral program was completed at Ball State University in science education.

Richard Slayback, P.E., Owner, Civil Engineering Services, Fort Wayne
B.S. Civil Engineering, University of Illinois

Mr. Slayback is a registered Professional Engineer in Illinois, Indiana and Ohio and does civil engineering design work for land development projects. He has been a member of the NE Indiana Engineers Week Committee since 1977, and is a founding member/judge of the Student Design Bridge Competition for both High School and Junior High School Students. Mr. Slayback was also an Engineer Mentor for the Future City Competition from 2001-2010 and is currently a committee member for the Indiana Regional Competition at IPFW.

Mr. Slayback is the owner of Civil Engineering Services, established in 1984. His company provides contract design services to many firms and individuals covering the gamut of needs for land development of commercial, industrial and residential projects. He is a long standing member of the Indiana Society of Professional Engineers and the American Society of Civil Engineers, as well as being a member of the International Association of Lions Clubs. He is the Chairman of the Lions District Youth Services and Co-Advisor to the Leo Club "Students Sharing Hearts".

AGAINST ALL ODDS

Debra Barrick, Director, IPFW Academic Internships & Cooperative Eduation

Art Friedel, Professor Emeritus, Chemistry, IPFW
B.S. and M.S. Chemistry Education, University of Pittsburgh
Ph.D., Science Education, Ohio State University

Dr. Friedel taught general chemistry, methods of science teaching, and supervised student teachers of science in middle and high school since his arrival at IPFW in 1967. Although recently retired, Dr. Friedel continues to be active with many IPFW organizations. He was the Director of the Northeast Regional Science and Engineering for 20 years and serves on the Advisory Committee. Dr. Friedel has been a judge for the FLL tournament since 2003.