

**Robert A. Kramer, Ph.D.**

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Robert Kramer is currently the Director of the Energy Efficiency and Utilization Center at Purdue University Calumet. In this role he is involved in the development of research programs in energy utilization and efficiency as well as electric power, reliability, and combined heat and power system research and system development. Prior to coming to Purdue University Calumet he was the Chief Scientist for NiSource. He was at NiSource from 1973 until January 2004 and held the positions of Nuclear Fuel Engineer, Manager Applied Research, Manager Strategic Planning, Manager Technical Support, Director of Electric Engineering and Applied Research, Director of Electric Operations, Director of Electric Services, Vice President, and Chief Scientist. He has developed various energy generation and transmission systems including Combined Heat and Power (CHP) systems with peak efficiencies over 70%. Current research interests include; optimization of combined heat and power systems in combination with renewable resources, biological hydrogen energy systems, building energy optimization and monitoring, intelligent controls for electric transmission and building systems, and fast thermal storage systems. He has worked closely with various local and national industries in an effort to develop new concepts for process and energy modeling and optimization. He has previously served as the principal investigator for three Department of Energy research contracts with a total value of over \$6,500,000. Currently he is the principal investigator for three energy related grants with a total value of approximately \$1,500,000. Dr., Kramer received a Ph.D. and M.S. in Nuclear Engineering from Purdue University, West Lafayette, Indiana, and B.S. and M.S. degrees in Physics, also from Purdue University, West Lafayette.