Research Collaboration Opportunities with the ISU Wind Energy Institute
Thrust Area I: Meteorology, Siting, Characterization, Prediction

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Abstract:
Wind energy has been selected by Dean Wickert as one of three College of Engineering Dean’s Research Initiatives (DRIs) for which major research funding is being sought. Each of the DRIs has been allocated funds to support the process of attracting major outside funding. These funds are not for the research itself but to facilitate the proposal-writing process. Thrust Area 1 focuses on meteorology, siting, characterization, and prediction. These terms are not narrowly defined, so we seek new ideas that generally enable the US to more fully and efficiently use its wind energy resources for meeting its future energy needs. I will discuss some of our recent and ongoing research related to these topics as examples. Our choice of collaborative research topics initially to be pursued will largely be dependent on clear signs of large pools of funds available from DOE and NSF.

Biography:
Dr. Eugene S. Takle received his Ph.D. from Iowa State University in Solid State Physics, and is a Certified Consulting Meteorologist. He is the Director of the Climate Science Program, and is a professor in the Department of Geological and Atmospheric Science and the Department of Agricultural Meteorology. He is a member of the Board of Trustees for the University Corporation for Atmospheric Research, and Commissioner for Education and Human Resources for the American Meteorological Society. He serves as Atmospheric Science Editor of Earth Science Reviews, and is Associate Editor for the Journal of Applied Meteorology and Climatology.

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This seminar counts towards the ME 600 seminar requirement for Mechanical Engineering graduate students.

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