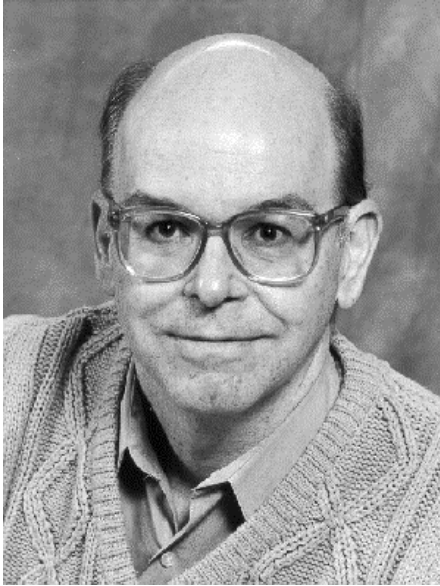


Kuehnast Lecture Series

Seventh Annual Lecture
September 24, 1999



*"Evapotranspiration: from
Canopies to Continents."*

Dr. John M. Norman

**Tanner Chair - Department of Soil Science
and
Department of Atmospheric
and Oceanic Science
University of Wisconsin, Madison**

Evaporation from natural surfaces, including transpiration, has been studied for hundreds of years because it is a major component of the water cycle, critical to wise crop management because of its effect on plant growth and irrigation scheduling, and essential for weather and climate prediction. Yet today, we cannot measure directly this critical quantity over extended areas such as large farms, counties or states. Currently, scientists can make routine measurements of evaporation on leaves, individual plants, small plots and areas up to only few hundred meters in size, so that larger-scale estimates of evaporation remain questionable. At the current time, practitioners are forced to rely on evaporation estimates from models that require inputs not obtainable on large scales. New models, which use inputs from routine satellite observations and ground-based operational weather measurements, may provide estimates of evaporation on a daily basis for spatial scales from hundreds of meters to thousands of kilometers. If successful, such products could change the way farmers manage their agricultural lands and, incidently, improve weather forecasts at the same time.

OPENING REMARKS DR. MARK SEELEY
PROFESSOR AND EXTENSION CLIMATOLOGIST
DEPARTMENT OF SOIL, WATER, & CLIMATE

FAMILY INTRODUCTIONSAL KUEHNAST
SON
FORT. COLLINS, CO

MN CHAPTER OF SIGMA XI.....DR. KATHERINE KLINK
ASSISTANT PROFESSOR
DEPARTMENT OF GEOGRAPHY

N.W.S. AWARD RECOGNITIONCRAIG EDWARDS
AREA MANAGER, NATIONAL WEATHER SERVICE
LENGTH OF SERVICE AWARDS
RICHARD FESER, SPRINGFIELD, MN - 35 YEARS
KENNETH FREIE, LONG PRAIRIE, MN - 35 YEARS
DAROLD SNORTUM, CANBY, MN - 50 YEARS
(STOLL AWARD)

INTRODUCTION OF SPEAKERDR. DONALD BAKER
PROFESSOR EMERITUS
DEPARTMENT OF SOIL, WATER, & CLIMATE

KEYNOTE SPEAKER Dr. JOHN NORMAN
