



**April 18, 2008
4:00-5:00 p.m.**

ETRL 101
Pullman, Washington

*A reception will follow the
lecture in ETRL 119.
Refreshments will be served.*

*The Bose Lecture is free
and open to the public.*

**WASHINGTON STATE
UNIVERSITY**
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*The Washington State University
College of Engineering and Architecture
is pleased to celebrate*

THE ANJAN BOSE OUTSTANDING RESEARCHER AWARD LECTURE

**“Multidisciplinary Research in Development
of Novel Food Processing Technology based
on Microwaves”**

by

JUMING TANG

PROFESSOR

DEPARTMENT OF BIOLOGICAL SYSTEMS ENGINEERING

In partnership with the industry and supported by the US Army, Dr. Tang's group at Washington State University has developed and patented a novel thermal processing technology based on 915 MHz microwave energy. This technology combines traditional surface heating using pressurized hot water at 125 degrees C and volumetric heating in a single-mode 915 MHz microwave cavity. It shortens the processing time to 5-10 min and produces safe foods with much superior quality to conventionally processed ready-to-eat military rations (MREs) and food products available in today's market.

In this talk, Dr. Tang will provide an overview of multi-disciplinary research activities at WSU that span from engineering design based on computer simulation, pilot-scale testing, and microbial validation of food safety, to generation of scientific information in support of FDA approval of the technology for final commercial production of safe military rations and civilian foods.

Dr. Juming Tang is a Professor of Food Engineering in the Department of Biological Systems Engineering at Washington State University. His research focuses on advanced thermal processing technologies for foods using microwave and radio frequency energy. He is the Director of the WSU Microwave Sterilization Consortium, President-Elect of the International Microwave Power Institute, and was a 2004 NASA summer fellow at NASA Johnson Space Center.

The Anjan Bose Outstanding Researcher Award was created by the Advisory Board for the College of Engineering and Architecture along with friends and alumni to honor Anjan Bose for his service to the College as Dean. To acknowledge Bose's support of faculty scholarship and to honor his internationally renowned reputation for research, the award will annually recognize and reward the top faculty researcher in the College.