

Oklahoma ACS Family Night
Friday 25 September 2015

WHAT YOU ALWAYS WANTED TO KNOW ABOUT CHEMICALS IN FOODS BUT WERE AFRAID TO EAT

Dr. Robert P Bates

*Food Science and Human Nutrition Department
University of Florida*



Foods are complex mixtures of chemicals, but with differences. There is a very important legal distinction between naturally occurring food constituents and other chemicals that end up in food by design or default. Conversely, the much more important matter, chemical compatibility, dictated by human physiology and nutritional biochemistry and vital to well-being, health, performance, and survival—is often ignored or misinterpreted by vocal yet chemically illiterate groups (or activists with an agenda). Despite considerable progress in understanding the science and technology of foods, culture and perception have a far greater influence upon food acceptance and regulation than the reality of nutrition and toxicology. Paradoxically, as science uncovers more about the complex interactions of foods with the human body, the less confident and more confused (or off-base) the public becomes regarding the safety, value, and nutritional efficacy of the U.S. (increasingly global) food supply. Food additives, phytochemicals and now GMOs and Sustainability are examples of food consumption concerns that should also stress total diet, lifestyle, and common sense. This presentation will deal with both essential and trivial food constituents and emphasize some of the positive and negative aspects of each. Despite our imperfect and changing knowledge, a better appreciation of the chemistry and metabolism of foods has dramatic potential for improving health and well-being, while ignorance is sure to have the opposite effect.

Oklahoma Baptist University, Shawnee, OK <http://www.okbu.edu>

6:00 pm Social Hour & Picnic Wood Science Building
lawn games [indoor/outdoor]—volleyball & croquet

7:30 pm Presentation Wood Science Building
large lecture hall

Menu	Cost
Hamburgers & hotdogs	\$8 members
potato chips	\$5 students
pickles	\$3 children under 12
cookies	
soft drinks	

RSVP Deadline

Monday, Sep 21st, 5 pm

Contact Nathan Malmberg

405-585-4126

nathan.malmberg@okbu.edu

[indicate # of adults & # children]

ROAD CONSTRUCTION
See map for best routes
to Wood Science Building



OBU map
QR code

Dr. Robert P. Bates Biographical Sketch

Bob Bates received his B.S. degree in food technology from MIT. After several years in the food industry, he obtained an M.S. degree in food science from the University of Hawaii and a Ph.D. in food science from MIT. After a year at the Institute of Nutrition of Central America and Panama in Guatemala, he joined the University of Florida. He is presently a professor emeritus of food technology in the Food Science and Human Nutrition Department. Bates' areas of interest are food processing and utilization, small-scale process and equipment development, fermentation technology and byproduct recovery, food product development, and international technical assistance. His major responsibilities

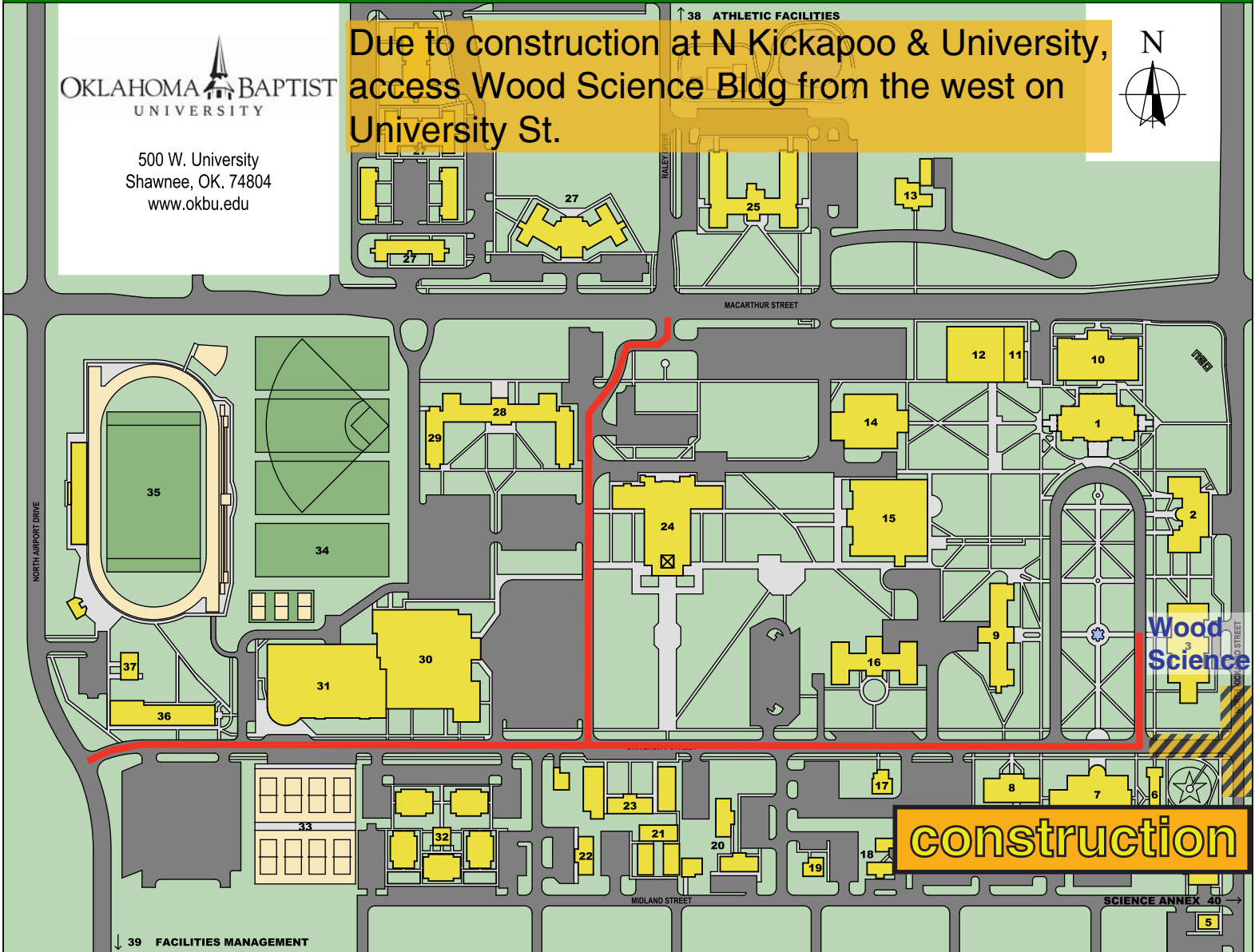
involve teaching graduate and undergraduate food science processing and product development courses; and conducting research/extension activities in home, community, and small-scale industrial food processing operations. He has completed short and long-term international assignments in many countries in the Caribbean, Central and South America, and Asia. He fields frequent inquiries on food science and technology and related subjects from national, international, and industrial sources. Bates has developed and presented many short courses in the U.S. and overseas and has been an ACS tour speaker on various food science and technology topics for over 30 years.

OKLAHOMA BAPTIST UNIVERSITY CAMPUS MAP



500 W. University
Shawnee, OK. 74804
www.okbu.edu

Due to construction at N Kickapoo & University, access Wood Science Bldg from the west on University St.



CAMPUS LEGEND

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|-----------------------------------|-------------------------------------|-----------------------------------|---|
| 1 SHAWNEE HALL | 14 SARKEYS TELECOMMUNICATION CENTER | 25 TAYLOR RESIDENCE CENTER | 38 ATHLETIC FACILITIES - BASEBALL/SOFTBALL/ |
| 2 THURMOND HALL | 15 GEIGER CENTER | 26 MILLENNIUM PARK | SOCCER/LACROSSE FIELDS AND |
| 3 W.P. WOOD SCIENCE BUILDING | 16 KERR RESIDENCE HALL | 27 OBU RESIDENCE VILLAGE | COATES BASEBALL/SOFTBALL BUILDING |
| 4 ART DEPARTMENT | 17 STUBBLEFIELD CHAPEL | 28 AGEE RESIDENCE CENTER | 39 EYER BUILDING - FACILITIES MANAGEMENT |
| 5 ART ANNEX | 18 MIDLAND APARTMENTS | 29 ATHLETIC DEPARTMENT | 40 SCIENCE ANNEX |
| 6 FORD MUSIC HALL | 19 CAMPUS POLICE | 30 NOBLE COMPLEX | |
| 7 BAILEY BUSINESS CENTER | 20 BURNS/COBBS APARTMENTS | 31 RECREATION AND WELLNESS CENTER | |
| 8 MONTGOMERY HALL | 21 DEVEREAUX EAST APARTMENTS | 32 WEST UNIVERSITY APARTMENTS | |
| 9 WMU RESIDENCE CENTER | 22 DEVEREAUX WEST APARTMENTS | 33 TENNIS COURTS | |
| 10 JANE E. & NICK K. STAVROS HALL | 23 HOWARD RESIDENCE COMPLEX | 34 INTRAMURAL FIELDS | |
| 11 OWENS HALL | 24 RALEY CHAPEL | 35 HURT MEMORIAL TRACK COMPLEX | |
| 12 MABEE LEARNING CENTER | POTTER AUDITORIUM (UPPER LEVEL) | 36 J.P. CHANCE TRACK BUILDING | |
| 13 CARGILL ALUMNI CENTER | YARBOROUGH AUDITORIUM (LOWER LEVEL) | 37 MATHENA CENTER | |