



# THE DAYTON SECTION

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## BULLETIN

September-October 2002

## "The Chemistry and Alchemy of Brewing"

Dr. Robert P. Bates

Thirsty Dog Brewing Company

45 Alex Bell Road

6:30 PM, Thursday, September 19, 2002

DATED MATERIAL -- MEETING ANNOUNCEMENT -- DO NOT DELAY

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AMERICAN CHEMICAL SOCIETY  
Dayton Section  
Eugene W. Kettering Center  
140 East Monument Avenue  
Dayton, Ohio 45402-1267

# Meetings...

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## September

- Date:** Thursday, September 19, 2002
- Place:** Thirsty Dog Brewing Company  
45 Alex Bell Road  
(SR 48 and I675 across from the Cross Pointe Shopping Center)
- Agenda:** 6:30 PM - Social\*  
(appetizers will be provided, you will also be able to order from the menu)  
7:15 PM - Talk
- Speaker:** Dr. Robert P. Bates  
University of Florida
- Topic:** "The Chemistry and Alchemy of Brewing"

**Abstract:** Beer making, one of the oldest examples of biotechnology, is a fascinating study of chemistry, biochemistry, and engineering. It combines well recognized and controllable reactions and operations with complex, poorly understood phenomena, including the psychosensory response. Surprisingly, some of the most sophisticated science and technology are employed in the efficient production of mass advertised, mediocre beers. In contrast, traditional "alchemy-driven" methods can produce exceptional yet under-recognized beers. Fortunately, there is an achievable balance between these extremes. This presentation will cover the brewing process from raw material selection and preparation through fermentation to consumption. Emphasis will be on major pathways employed by brewers to produce a wide range of beers. These are exciting times for brewers and beer connoisseurs in the U.S. Future industry developments of relevance to consumers will be mentioned. With dedication and practice, the average chemist can brew above-average beers; so can the experienced kitchen alchemist.

\*Since seating is limited to 50 please make reservations with Dave Tomlin at 255-3808 x3181 or david.tomlin@wpafb.af.mil

### *Future Meetings 2002*

- |                 |   |
|-----------------|---|
| <i>October</i>  | <i>National Chemistry Week<br/>Career Night</i> |
| <i>November</i> | <i>Dr. Leslie Perkins</i>                       |
| <i>December</i> | <i>Professional Practices/Social</i>            |



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**Biography:** Dr. Robert P. Bates received his B.S. degree in food technology from MIT in 1959. 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 in 1967. He is presently a professor 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; serving as department graduate coordinator; 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 18 years.



### Wanted

The Dayton Section is in need of someone willing to take on the duties of Professional Practices Committee Chair. For more information about the position and job description, please contact Dr. Dave Tomlin at 255-3808 ext 3181 or [david.tomlin@wpafb.af.mil](mailto:david.tomlin@wpafb.af.mil).



### Wanted

The Dayton Section is in need of someone willing to take on the duties of Membership Committee Chair. For more information about the position and job description, please contact Dr. Dave Tomlin at 255-3808 ext 3181 or [david.tomlin@wpafb.af.mil](mailto:david.tomlin@wpafb.af.mil).

