



American Chemical Society

Central Wisconsin Section



AMERICAN CHEMICAL SOCIETY - CENTRAL WISCONSIN SECTION
ANNUAL AWARDS BANQUET AND SPOUSES NIGHT

Wednesday, May 7, 2003
University Center - Legacy Room
University of Wisconsin - Stevens Point

5:30 - 6:30 Cash Bar
6:30 - 7:15 Dinner
7:15 - 7:30 Awards Presentations
7:30 - 8:30 Speaker's Program

"The Chemistry of Flight"

by

Dr. John J. Fortman
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Abstract

The year 2003 is the 100th anniversary of the Wright Brothers' first flight. In this presentation demonstrations will be done which illustrate the science involved in flight and the development of modern materials needed to move into the space age. The first demo will illustrate the action of gravity, followed by a demo of how this action produces atmospheric pressure. The third demo shows that this pressure acts in all directions and not just down. The next demos illustrate how moving air produces pressure differences and this will be connected to how lift is produced. The second portion of the presentation will focus on the chemistry involved in traditional airplane engines and jet and rocket thrust. The third portion of the talk will use demonstrations and video clips to present some classic cases of improvement of materials for lighter, safer materials for construction and operation of airplanes and space ships. This presentation was developed under an educational outreach contract from the Materials Research Labs at Wright-Patterson AFB, Dayton OH.

Biographical Sketch

John Fortman is Professor Emeritus of Chemistry at Wright State University where he retired in 2001 after 36 years of teaching freshman and inorganic chemistry. In 1998 he was appointed the Robert J. Kegerreis Distinguished Professor of Teaching and won seven different teaching awards over the years at Wright State. In 1998 he received the CMA Catalyst Award for Outstanding Teaching of College Chemistry. Dr. Fortman received his B.S. from the University of Dayton in 1961 and his Ph.D. in physical inorganic chemistry from the University of Notre Dame in 1965. He has published over 50 papers in chemical education in addition to his research publications. John has been an ACS member since 1962 and is currently Councilor for the Dayton section and member of the Committee on Constitution & Bylaws after serving for five years on the Local Section Activities Committee. As an ACS Tour Speaker he has given over 200 talks over the past ten years, visiting 150 of the 189 different local sections and doing each of the 28 speaking tours at least once. He has presented in 49 of the 50 states.

Dinner reservations should be made by contacting Robin Tanke at (715) 346-4325, or email rtanke@uwsp.edu **before 5 PM on Monday, May 5**. Dinner is a buffet (\$12.50) that includes tossed Salad, fresh fruit, vegetable salad, Cole slaw, Roast Pork, Fried Chicken, Green beans; buttered corn, whipped potatoes and cake squares.