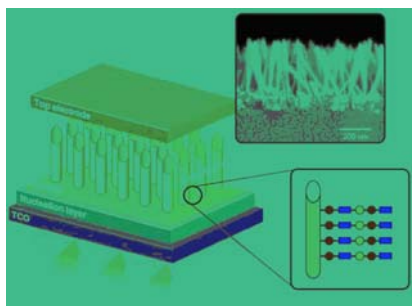


2nd Annual Chemistry Symposium Kansas State University



For: Current (2007-08) **High School** Sophomores, Juniors & Seniors and **Community College** students in Kansas with strong interest in nanotechnology and energy related sciences and as well as interested teachers or sponsors.*

On: **Tuesday, April 22** 8:30 am – 9:00 am Registration (Breakfast Included)
9:00 am - 3:00 pm Symposium Events
(Lectures, Lunch, and visit to *NanoScale* Corporation, Manhattan, KS)

At: Kansas State University; The Hemisphere Room (Hale Library)

Why: **To provide an opportunity for motivated students to inquire and learn about energy alternatives and solar energy utilization.**
Enroll by e-mail to ryszard@ksu.edu Enrollment Due: March 30th

Cost: \$10 per Student (Covers T-shirt and lunch)

Teachers with Students or Group: Free.

Payment due after official notification of acceptance. Check or money order only.

Student Name: _____ Home Address: _____

Phone Number: (Home) _____ (Cell) _____

E-mail: _____

Cumulative GPA: _____ Composite ACT Score (if available): _____

Class: Soph ___ Jr ___ Senior ___ Community College ___ T-Shirt Size: S M L XL

Current School: _____ School Address: _____

*Teachers or Sponsors who would like to bring a group of students should include a complete list of students with the requested information above.

Space is limited to 50 participants.

This event is sponsored by the KSU Department of Chemistry, the Office of the Vice-President for Research at KSU, and *NanoScale* Corporation.

2nd Annual Chemistry Symposium Kansas State University

(Tuesday, April 22, 2008 (Hale Library) Manhattan, Kansas)

Goal: To extend education and encourage students to pursue careers in chemistry and related fields.

Symposium Co-Chairs: R. Jankowiak and V. Converse (Manhattan High School, MHS)

Organizing Committee: O. Koper (*NanoScale Corporation*), D. Higgins, M. Reppert, I. Fees (MHS student), B. Neupane, K. Acharya

Program

- 9:00 – 9:05** **Introductory Remarks**
Eric Maatta, Department Chair
- 9:05 – 9:30** **The global energy challenge: basic research needs for solar energy utilization**
Daniel Higgins
- 9:30 – 9:55** **Natural photosynthetic systems for efficient energy production**
Ryszard Jankowiak
- 9:55 – 10:20** **Nanoparticles for Improved Solar Cells**
Victor Chikan
- 10:20 – 10:50** **Break and informal discussion (refreshments will be available)**
- 10:50 – 11:15** **Nanowire-based photo-electrochemical solar cells**
Jun Li
- 11:15 – 11:40** **Solar-powered catalysts for fuel formation**
Stefan Bossmann
- 11:40 – 12:50** **Lunch and informal discussion with presenters and undergraduate students (pizzas and drinks will be provided)**
- 12:50 – 1:20** **Transfer to *NanoScale Corporation*, Manhattan, KS**
- 1:20 – 2:40** **Visit to laboratories at *NanoScale Corporation*, Manhattan, KS**
O. Koper
- 2:40 – 3:00** **Transfer back to the Department of Chemistry and departure**

Please join us to learn more about the energy challenges of the near future, efficient light-harvesting of the solar spectrum by chlorophyll-like molecules, and various molecular assemblies and solid-state devices for the production of energy, hydrogen, methanol, etc.