

# Summer Research Program in Solid State Chemistry for Undergraduate Students and College Faculty

Shiou-Jyh Hwu, Clemson University, DMR-0303450

The PI and co-PI's (Profs. A. Wilkinson and H. zur Loye) organized the 20th annual summer research program in Solid State Chemistry. A total of 24 participants from 15 states were admitted to the 10-week program. As part of the training, participants were asked to give a 20-minute oral presentation and to write a 10-page report based on their summer research activities.



The program participants enjoyed the dinner at the Madren Conference Center by the Lake Hartwell at Clemson University. A graduate forum discussing career opportunities immediately followed.

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## Education:

The program provides an interdisciplinary forum for learning about solid state chemistry, including the impact of materials synthesis, development and application on science, technology and society. Of 24 participants (including 1 faculty) in 2004, 11 are female, 13 male and 3 Hispanic origin. Research laboratories in nearly twenty states jointly host the summer research participants. This education and outreach program in solid state and materials chemistry is enthusiastically endorsed by the solid state chemistry community. It is evident that there is a significant impact on both students and faculty participating in the program.

## Outreach:

With graduate students Becht, Williams and Zarzyczny (prior program participants in 2002), the PI promoted the solid state chemistry research at the graduate fairs of national and regional ACS meetings using solid state demonstrations employing superconductivity, thermo-electricity, memory metal and LED.

