

Diffraction and Other Structural Methods in Undergraduate Education

A Proposed Symposium Proposed for Co-Sponsorship by: the Chemical Education Division and the Division of Inorganic Chemistry at the Fall 2002 Boston ACS Meeting

- Meeting of Interest
 - Fall 2002 in Boston

- Number of Half-Day Sessions
 - Two half day sessions
 - One might emphasize the role of Diffraction and Other Structural Methods in Formal Lecture and Lab Courses
 - The other might emphasize the role of Diffraction and Other Structural Methods in Undergraduate Research

- Speakers
 - I would have a mixture of invited and contributed speakers
 - The invited speakers would be chosen from acknowledged experts in the field and from recent winners of NSF ILI/CCLI grant recipients in this area.

- Possible Speakers
 - Note: I haven't contacted the people below yet.
 - Katherine Kantardjieff at Cal State Fullerton who has pioneered the use of protein crystallography in an undergraduate environment
 - Marcus Bond at Southeast Missouri State University who recently got a pioneering grant from the CCLI program for a cutting edge CCD diffractometer for a network of PUIs
 - Margaret Kastner from Bucknell University who has developed "Crystallographic CourseWare" for understanding solid state symmetry.
 - Jenny P. Glusker of the Fox Chase Cancer Institute who has written a very "student friendly" text in this area.
 - Charles B. Abrams who wrote "NMR Tutor"
 - Phillip Fanwick at Purdue
 - Alexander McPherson at UC Irvine
 - A selection of CCLI and ILI awardees over the last 5 years as well as recent JCE articles.
 - I would be happy to apply to the ACS, PRF, NSF, etc., for funds for this symposium

- The goal of this symposium is to discuss the role that diffraction methods can and should play in the undergraduate curriculum, including both formal course work and undergraduate research. The relationship of crystallography to both other structural methods more commonly taught to undergraduates (e.g., IR and NMR) and to bonding theories will be emphasized.

- I would be happy to serve as an organizer and would approach several of my colleagues (above) to find a “volunteer”.

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