

## ERRATUM

Volume 4, Number 4 (1994): The Special Issue "Workshop on Monochromatic X Rays" was published without the Guest Editors' Introduction. For the reader's convenience, the introduction is printed here:

### Guest Editors' Introduction

On Friday and Saturday October 29 and 30, 1993, a workshop was conducted at the Vanderbilt University Free-Electron Laser (FEL) Center. The stated purpose of the workshop was to "specifically address current concepts, benchmarks, and future directions in the production, delivery, and applications of monochromatic X-ray beams." This purpose was the basis for initiating multidisciplinary communication for enhancing each individual participant's research. This special issue of the *Journal of X-Ray Science and Technology* focuses on the science discussed during this workshop.

The occasion of the workshop was the anticipated commissioning of an intense monochromatic x-ray source at Vanderbilt. In this project the infrared FEL light collides with the electron beam to create Compton scattered x rays. This project is described in papers by Carroll, Dong *et al.*, and Tompkins. Despite the narrow platform upon which the workshop was organized, the actual content was considerably broader. The only criterion for a valid topic was that it involved monochromatic x rays. Due to this criterion the participants and issues discussed encompassed science, medicine, and engineering.

During the final discussion we compared the performance, advantages, and disadvantages of various x-ray sources. Many sources which had not been covered during the workshop, for example, channeling radiation, were identified. One of the successful objectives of the workshop was the beginnings of a broad-based, multidisciplinary, collaborative consensus on where we are at present. Further work on defining the status of sources would be very useful. Included in this characterization is the need to define the "figures of merit" to be compared. The appropriate figure of merit depends on the specific application. We feel that most participants left with a glimpse of the larger picture of monochromatic x rays.

This special issue includes a broad selection of topics from the even broader workshop constituents. Most contributed papers covered more than one specific x-ray category. The general divisions of topics are as follows: papers on high technology sources by Dong *et al.*, Kieffer and Chaker, Luccio and Miceli, Pellegrini, and Umstadter *et al.* are included. Various types of optics are covered by Tompkins. An encouraging attempt to define a figure of merit for x-ray comparison is given by Boone and Siebert. Detectors are discussed by Nelson and Witteles. Finally, applications in medicine and science are covered by Carroll and Hmelo.

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