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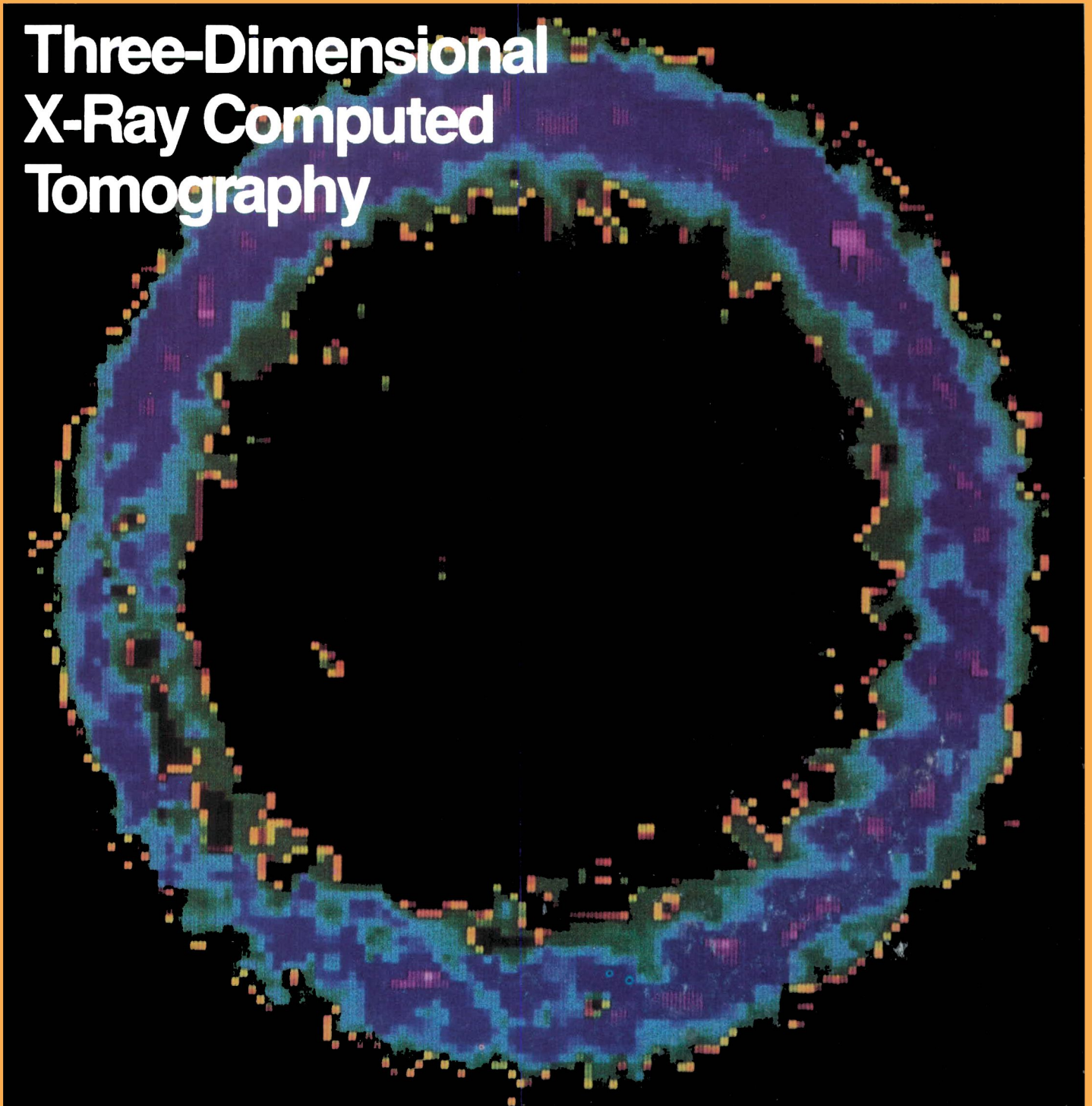
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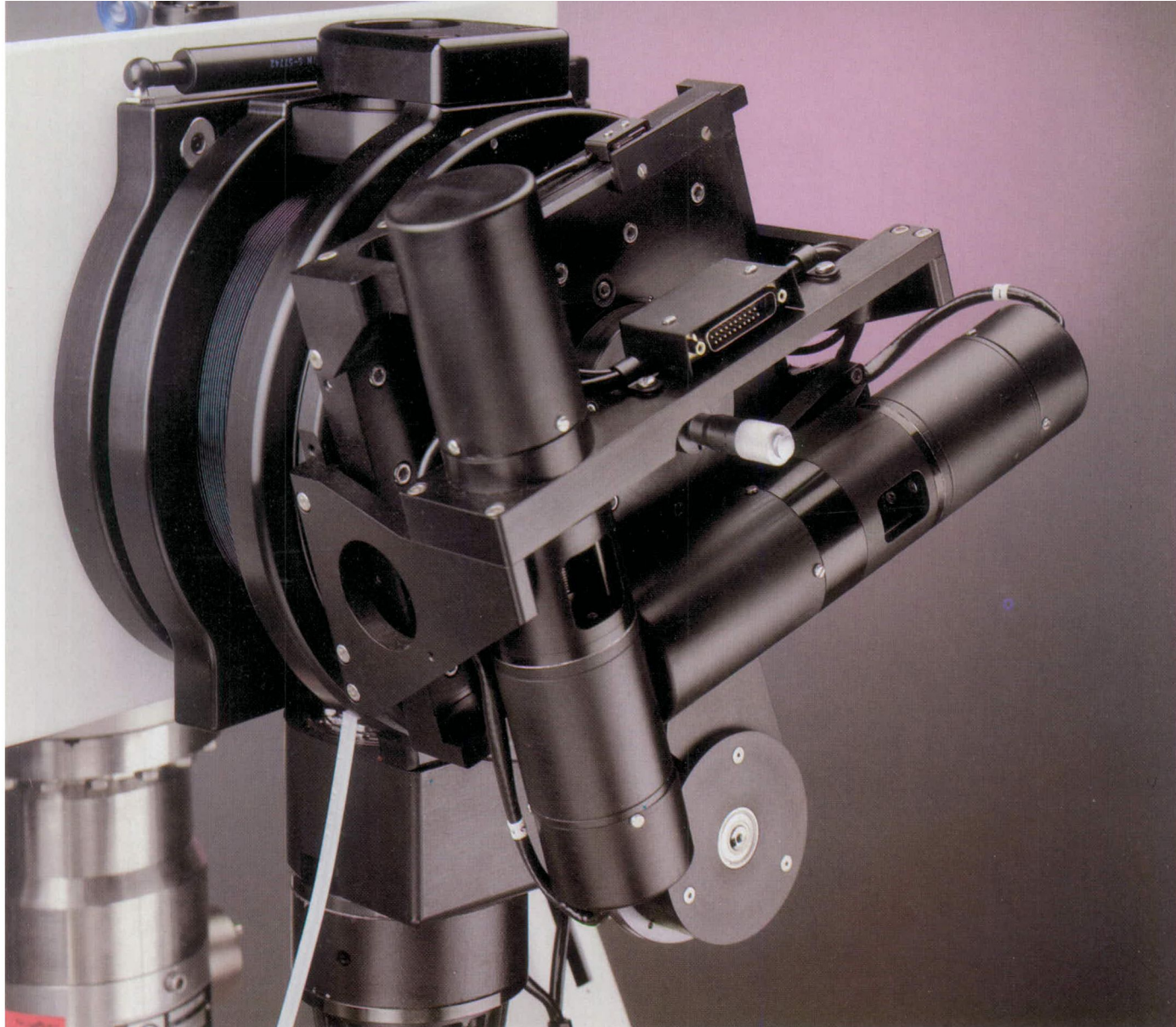
January 1988

Volume XIII, Number 1

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January 1988

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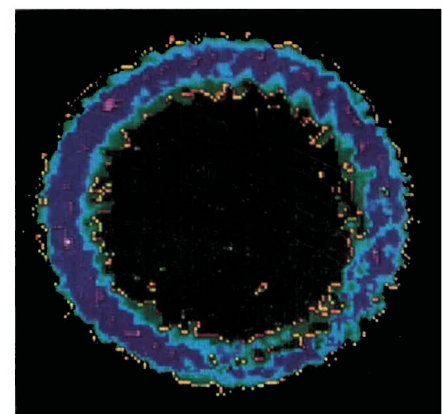
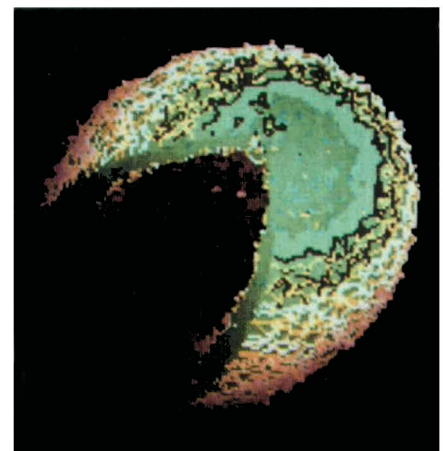
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ON THE COVER: The cover shows a center slice from a laser fusion microballoon obtained using microtomography and taken at the Stanford Synchrotron Radiation Laboratory on Beam Line I-5. The slice is from near the center of the three-dimensional reconstruction shown on this page. The extreme brilliance of a synchrotron light source coupled with modern solid state imaging devices makes possible high resolution three-dimensional imaging. For more about this subject, "Three-Dimensional X-Ray Computed Tomography in Materials Science," by J.H. Kinney et al. on p. 13 in this issue.



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Materials Research Society • 9800 McKnight Road, Suite 327 • Pittsburgh, PA 15237

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Editorial Board Chairman

E. N. Kaufmann
Lawrence Livermore
National Laboratory

Associate Editor—Europe

I. W. Boyd
University College London
Dept. of Electronic and
Electrical Engineering
Tarrington Place
London WC1E 7JE
United Kingdom
01-387-7050
ext. 3956 or 7340

Editor

G. A. Oare
(412) 367-3036

Assistant Editor

F. M. Wieloch
(412) 367-3036

Design/Production

C. Love
(412) 367-3003

Editorial Assistant

J. Dininny
(412) 367-3036

Advertising and Circulation

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(412) 367-3036

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Centre de Recherches
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MRS BULLETIN EDITORIAL BOARD

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University of Pierre and Marie Curie
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4 Place Jussieu, Tour 13
75230 Paris Cedex 05, France
telephone: 336-25-25

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Director
Materials Science Division
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9700 South Cass Avenue
Argonne, IL 60439
telephone: (312) 972-4925

SHU-EN HSU

Director
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Science and Technology
P.O. Box 1-26
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Cable: CHUNSHANINST SHIMEN,
TAIWAN

RALPH J. JACCODINE

Sherman Fairchild Professor
of Solid State Studies
Sherman Fairchild Laboratory 161
Lehigh University
Bethlehem, PA 18015
telephone: (215) 862-3950

HIROSHI KAMIMURA

Department of Physics
Faculty of Science
University of Tokyo
7-3-1 Hongo, Bunkyo-ku
Tokyo 113 Japan
telephone: 03-812-2111
telex: UTPHYSIC J23472

ELTON N. KAUFMANN (Chairman)

Lawrence Livermore National
Laboratory
P.O. Box 808 L-350
Livermore, CA 94550
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telex: 011-3192 NCML IN

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Osaka, Japan 560

JULIA M. PHILLIPS

AT&T Bell Laboratories
Room 1E-431
600 Mountain Avenue
Murray Hill, NJ 07974
telephone: (201) 582-4428

EMANUELE RIMINI

University of Catania
Department of Physics
57 Corso Italia
I 95129 Catania, Italy
telephone: 37-70-61
telex: 911554 INFNCT I

RUSTUM ROY

Materials Research Laboratory
Pennsylvania State University
University Park, PA 16802
telephone: (814) 865-3424

RICHARD L. SCHWOEBEL

Directorate 1800
Sandia National Laboratories
P.O. Box 5800
Albuquerque, NM 87185
telephone: (505) 844-9273

G. D. W. SMITH

University of Oxford
Department of Metallurgy
and Science of Materials
Parks Road
Oxford OX1 3PH, England

TAKUO SUGANO

Professor of Engineering
Department of Electronic Engineering
University of Tokyo
7-3-1 Hongo, Bunkyo-ku
Tokyo 113 Japan
telephone: 03-812-2111, ext. 6675

C. W. WHITE

Solid State Division
Oak Ridge National Laboratory
Oak Ridge, TN 37831
telephone: (615) 574-6295

J. S. WILLIAMS

Royal Melbourne Institute of
Technology
Microelectronics Tech. Center
124 Latrobe Street
Melbourne, Victoria 3000, Australia
telephone: 03-660-2459

ABOUT THE MATERIALS RESEARCH SOCIETY

The Materials Research Society (MRS) is a nonprofit scientific association founded in 1973 to promote interdisciplinary goal-oriented basic research on materials of technological importance. Membership in the Society includes more than 5,900 scientists from industrial, government, and university research laboratories in the United States and more than 25 countries.

The Society's interdisciplinary approach to the exchange of technical information is qualitatively different from that provided by single-disciplinary professional societies because it promotes technical exchange across the various fields of science affecting materials development. MRS sponsors two major international annual meetings encompassing approximately 30 topical symposia, as well as numerous single-topic scientific meetings each year. It recognizes professional and technical excellence, conducts short

courses, and fosters technical exchange in various local geographical regions through Section activities and Student Chapters on university campuses.

MRS is an Affiliated Society of the American Institute of Physics and participates in the international arena of materials research through associations with professional organizations such as European MRS.

MRS publishes symposia proceedings, the *MRS BULLETIN*, *Journal of Materials Research*, and other volumes on current scientific developments.

For further information on the Society's activities, contact MRS Headquarters, 9800 McKnight Road, Suite 327, Pittsburgh, Pennsylvania 15237; telephone (412) 367-3003; facsimile (412) 367-4373.