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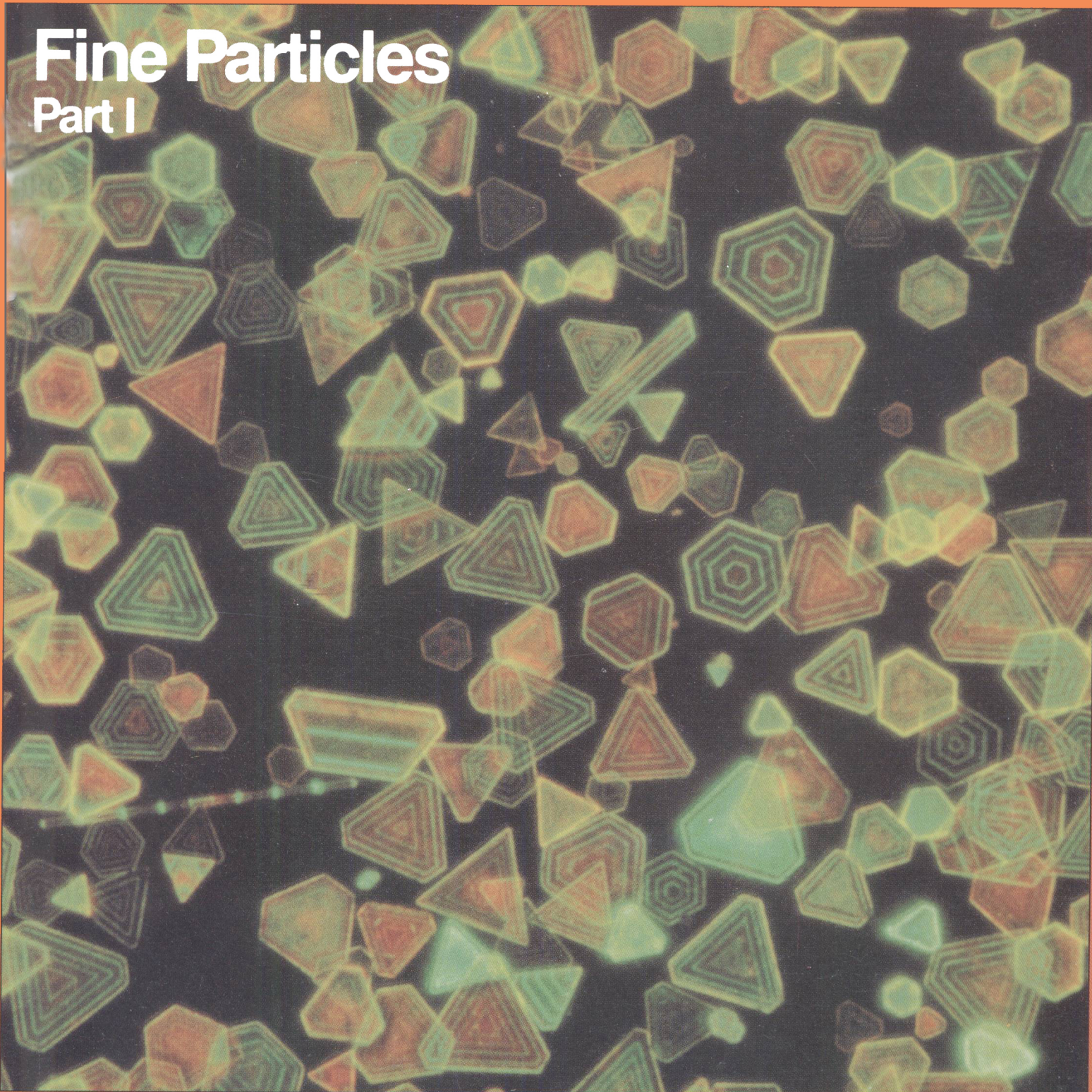
BULLETIN

December 1989

Volume XIV, Number 12

Serving the International Materials Research Community

Fine Particles Part I



A NEW CLUSTER IS BORN



General Ionex acquired by High Voltage Engineering Europa B.V.

In December 1987 High Voltage Engineering Europa B.V. (HVEE) acquired Dowlish Developments Ltd (DD), an accelerator tube manufacturer located in the United Kingdom.

On April 10, 1989, HVEE purchased the General Ionex Analytical Product Group from Genus Inc. based in the United States.

Through this acquisition HVEE positions itself as the largest and most diverse manufacturer of particle accelerators for the scientific and industrial research communities.

The acquired General Ionex (GI) product lines, which include the Tandetron accelerator systems and Model 4175 RBS Analyser, will be manufactured in HVEE's new, well-equipped facility in Amersfoort, The Netherlands.

World wide marketing of all products from HVEE, DD and GI will originate from HVEE Amersfoort with sales and service offices in the USA, Europe and Japan.

After addition of the newly acquired products HVEE's product lines include:

- *Ion Accelerator Systems*
 - Air insulated accelerators up to 500 kV
 - Single ended Van de Graaff accelerators up to 4 MV
 - Tandem Tandetron accelerators up to 3 MV/TV
- *Research ion implanters*
 - Beam energies 10 keV-9 MeV and higher
- *Systems for ion beam analysis*
 - Systems for RBS, PIXE, PIGE, NRA, ERD, MACS and MEIS
- *Components*
 - HV power supplies, electron and ion accelerator tubes, ion sources beamline components, beam monitoring equipment, UHV sample manipulators, etc.

For further information on this transaction and product literature please contact HVEE in Amersfoort/NL.



**More
Energy for Research**

HIGH VOLTAGE ENGINEERING EUROPA B.V.

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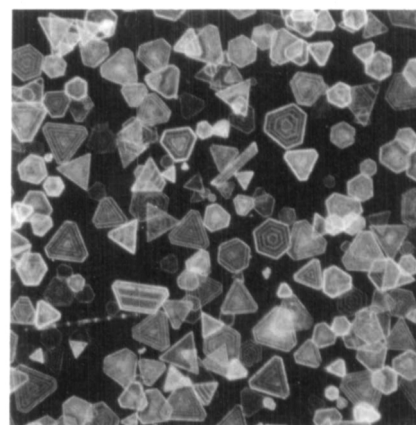
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ON THE COVER: This unique photomicrograph was taken using a recently designed low-temperature (-196°C) luminescence microscope (*J. Imaging Science*, **32**, 1988, p. 15). By banding a silver bromide tabular grain emulsion during growth with low levels of iodide, luminescence patterns were created which reveal the growth histories of the individual crystals, somewhat analogous to the growth rings of trees. This technique showed, for the first time, the variety of mechanisms by which these ($\sim 10\ \mu\text{m}$) AgBr tabular crystals grew (*J. Imaging Science*, **31**, 1987, p. 15). The sample was exposed to ultraviolet light and its luminescence was recorded using 40 seconds on Kodacolor VR200 film. (Photo courtesy of J.E. Markasky, author of the procedure, Eastman Kodak Company.) For more on the development and analysis of fine particles, see the series of articles beginning on p. 18 in this issue.

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MRS BULLETIN

Editor

G. A. Oare
(412) 367-3036

Assistant Editor

F. M. Wieloch
(412) 367-3036

Copy Editor

S.W. Morelli

Design/Production

C. Love, W. Appman
(412) 367-3003

Editorial Assistant

J. Dininny
(412) 367-3036

Advertising and Circulation

M. E. Kaufold
(412) 367-3036

Associate Editor—Europe

I. W. Boyd
University College London
Dept. of Electronic and
Electrical Engineering
Torrington Place
London WC1 E7 JE
United Kingdom
01-387-7050
ext. 3956 or 7340

Contributors

K. J. Anderson,
T. P. Sheahan

Guest Editor

E. Matijević

Chairman—Editorial Boards

E. N. Kaufmann
Argonne National Laboratory
Argonne, Illinois

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EUROPEAN MRS

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Centre de Recherches Nucléaires
Laboratoire PHASE
67037 Strasbourg, Cedex, France
Telephone: (88) 28 65 43
Fax: (88) 28 09 90

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 9,000 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-discipline 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 geographic regions through Section activities and University Chapters.

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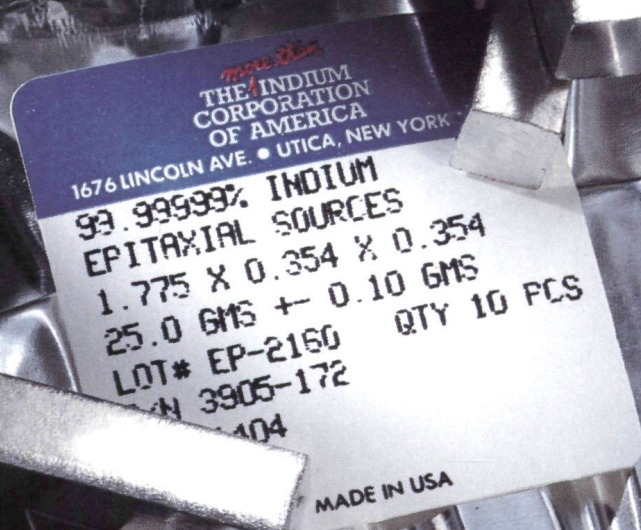
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