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July 1993

Newcastle-on-Tyne, UK

Electrosynthesis '93 (SCI/RSC)

Dr. K. Scott
 Department of Chemical & Process Engineering
 University of Newcastle-upon-Tyne
 Merz Court
 Claremont Road
 Newcastle-upon-Tyne NE1 7RU, UK

22-24 May 1995

Sendai, Japan

Zinc & Lead '95

- mineral processing
- hydrometallurgy
- pyrometallurgy
- recycling
- secondary materials
- applications
- environmental challenges

5-10 September 1993

Berlin, Germany

44th ISE Meeting

Prof. W. Plieth
 Institut of Physical & Theoretical Chemistry
 Free University of Berlin
 Takustrasse, 3
 D-1000 Berlin 33
 Germany

M. Hino

Department of Metallurgy
 Faculty of Engineering
 Tohoku University
 Aoba, Aramaki, Sendai
 Japan 980
 Fax: 81-22-268-2949

or

J. E. Dutrizac
 CANMET
 555 Booth Street
 Ottawa
 Ontario
 Canada K1A 0G1
 Tel: (613) 995-4823
 Fax: (613) 995-9041

12-15 September 1993

Ferrara, Italy

Progress in Electrocatalysis – Theory and Practice

Please send details of relevant meetings and other worthy news to the News Editor.

Book Reviews

'Fuel Cells', D. G. Lovering (Ed.), *Proceedings of the Grove Anniversary Fuel Cell Symposium, Royal Institution, London, 18-21 September 1989*. Reprinted from *J. Power Sources* **29**
 280 pp. ISBN 1-85166-816-0, £59.00

According to the symposium committee, the main purpose of the meeting was for scientists from research institutions and industries to discuss the contemporary developments in fuel cells and their potential role in an increasingly environmentally-aware society.

The first two chapters cover the 'Background', 'Context of Application' and 'Commercialization' of fuel cells. These lectures offer an introduction and an overview especially for industrial colleagues new to the field. The content of chapter 3, 'European Fuel Cell Interest', can also be included in this group of presentations. Starting with a good description of the development of fuel cells during the last 150 years, the importance of fuel cells in respect to the global warming problem, the market of fuel cells for public power systems (3-10 MW at ~1000 \$/kW), and in more detail the Westinghouse phosphoric acid fuel cell are

discussed. The strategy of fuel cell R&D is presented for Europe, Italy and Japan, mainly from the economic and application point of view. There are only a few remarks on subjects like electrochemical reactions or electrocatalysis.

In the last two chapters (nine contributors spanning 110 pages), four authors offer more than just a survey. B. Riley from Combustion Engineering (Windsor USA) explains in detail the new planar concept of Solid Oxide Fuel Cells and the problems ahead. K. Prater from BALLARD (Canada) presents the unique features of the modern Solid Polymer Fuel Cell with great possibilities for mobile applications, now ready for commercialization. In this respect, the paper by R. Lemons (Los Alamos) also has something to say.

Last, but not least, the closing remarks of J. Appleby (Texas A&M) not only summarize the discussion of the symposium but list a series of comments, interesting for everyone working in fuel cell research and development.

W. VIELSTICH
 Universität Bonn, Germany