

NEWS

Book review

Dictionary of electrochemistry. 2nd edn.

D. B. Hibbert and A. M. James, Macmillan Press, London, 1984
308 pp. £20, ISBN 0-333-34983-0

This is the second edition of Hibbert and James' book and it has been extensively revised and rewritten. In all there are 360 entries covering a broad range of electrochemical topics. Under each heading the authors give a brief discussion of the particular term or in some cases a cross-reference to another relevant section. All of the cross-references within the text are clearly indicated in bold type so that the reader can readily follow various topics through the dictionary. From accumulator to zinc-carbon battery the dictionary covers a broad sweep of electrochemistry (both ionics and electroducts) and electrochemical reactions including fuel cells, electrode kinetics, ion selective electrodes, bioelectrochemistry, electrophoretic techniques, and electrorefining. If anything, the choice of topics and weighting of the discussion leans towards the biological sciences, reflecting the interests of the authors and their projected audience (for example photoelectrochemistry gets one page while microbial fuel cells get three).

In a book of this type it is obviously not possible to deal with any single topic in great detail. However, the authors have given reasonably clear and concise descriptions under each

heading, illustrated by diagrams where appropriate. The relevant equations are given in the text without their derivations for reasons of space. In certain cases further references are provided to textbooks or review articles at the end of the section. It is a pity that more use is not made of these references and that they are not more frequent since they could be used to direct the reader to sources of more detailed material. This is especially relevant in a book of this type which is presumably intended as a reference work for readers who have a particular problem in mind but are unfamiliar with the electrochemical literature. The dictionary is essentially aimed at the non-specialist chemist or biological scientist who has need of a ready source of reference or background material in the area of electrochemistry in the broadest sense. In this context the dictionary provides a reasonable source of basic electrochemical information. For the more experienced and specialized electrochemist the dictionary has less to offer since he or she is much more likely to have ready access to the standard texts on the subject and to know where to go for further information.

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Calendar

<i>Date</i>	<i>Place</i>	<i>Title</i>	<i>Organizer</i>	<i>Topics</i>
8-13 September 1985	Manchester UK	30th IUPAC Congress	Dr J. F. Gibson Royal Society of Chemistry Burlington House London W1V 0BN UK	Electrochemical sensors, inorganic electrochemistry
9-13 September 1985	Roskilde Denmark	Relations in Fast Ion and Mixed Conductors	The Secretariat 6th RISO Conference Metallurgy Dept. RISO National Lab. Postbox 49 DK 4000 Roskilde Denmark	
19-20 September 1985	Perpignan France	Electroorganic Process Engineering	Professor A. Storck CPIC, Ecole Nationale Superieure des Industries Chimiques 47 rue Henri-Deglin 54042 Nancy Cedex France	
23-28 September 1985	Salamanca Spain	36th ISE Meeting	Dr F. Colom Instituto Quimica Fisica CSIC Serrano 119 Madrid 6 Spain	Corrosion, electroanalytical chemistry, organic electrochemistry, bioelectrochemistry
2-5 October 1985	Dusseldorf West Germany	Fundamental Aspects of Electrode Reactions	Dr J. Wendenberg GDCh Postfach 90.04.40 Varrentrapp- strasse 40-42 D-6000 Frankfurt (Main) 40 West Germany	
13-18 October 1985	Las Vegas Nevada USA	ECS Fall Meeting	The Electrochemical Society 10 South Main Street Pennington NJ 08534-2896 USA	Batteries, corrosion, electrodeposition, materials
17-18 December 1985	Southampton UK	Physical Chemistry of Battery Reactions	Dr D. Pletcher Department of Chemistry The University Southampton SO9 5NH UK	

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21–26 January 1986	Santa Barbara California USA	Gordon Conference on Electrochemistry	Professor D. Evans Department of Chemistry University of Wisconsin Madison WI 53706 USA	
7–9 April 1986	Oxford UK	New Techniques for the Characterization of Electrodes and their Reactions	Dr A. Hamnett Inorganic Chemistry Lab. South Park Road Oxford OX1 3QR UK	
15–18 April 1986	Brugge Belgium	2nd European Workshop on Electrodeposition	Dr J. Vanhumbecck Siemens NV Siemenslaan B-8020 Oostkamp Belgium	Nucleation and growth — relation of deposit properties
21–23 April 1986	Loughborough UK	Electrochemical Engineering	Dr S. R. Ellis Chemistry Department University of Technology Loughborough Leicestershire LE11 3TU UK	Economics and optimization of processes, cell components and design, applications
22–26 April 1986	Bürgenstock Switzerland	6th EUCHEM Meeting on Organic Electrochemistry	Professor R. Scheffold Institut für Organische Chemie CH-3012 Bern Frerestrasse 3 Switzerland	
5–9 May 1986	Boston Massachusetts USA	ECS Spring Meeting	The Electrochemical Society 10 South Main Street, Pennington NJ 08534-2896 USA	Electrode processes, organic electrochemistry, liquid–liquid interfaces, cell engineering
21–25 May 1986	Castle Liblice Nr Prague Czechoslovakia	20th Heyrovsky Discussion	Dr A. A. Vlcek Director The J. Heyrovsky Inst. of Polarography Czechoslovak Academy of Sciences Prague 1 Czechoslovakia	Materials in electrochemistry
27–30 May 1986	Kyoto Japan	3rd International Meeting on Lithium Batteries	Professor Z. Takehara Dept. of Industrial Chemistry Faculty of Engineering Kyoto University Kyoto 606 Japan	Primary and secondary Li batteries

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3-6 June 1986	Capri Italy	Corrosion and Electrochemical Behaviour of metals in Non-aqueous Solvents	Dr F. Bellucci, Istituto di Principi di Ingegneria Chimica Fac. Ingegneria Universita di Napoli Piazzale Tecchio 80125 Napoli Italy	
25-29 August 1986	Vilnius Russia	37th ISE Meeting		
2-5 September 1986	Berlin West Germany	Structure and Dynamics of Electrode/Electrolyte Interfaces	Professor D. M. Kolb Fritz-Haber Institut Faradayweg 4-6 D-1000 Berlin 33 West Germany	
7-12 September 1986	Anaheim California USA	American Chemical Society	Dr A. Diaz, K46/282 IBM Research Laboratory 5600 Cottle Road San Jose CA 95193 USA	Chemistry and properties of polymer film electrodes
