Chemistry Issue 2 4 November 200 www.chemind.or where science meets business A Industry The control of the co

4 November 2002 www.chemind.org

Issue 21

Sustainable daya on and others eathorites others eathorites

North America review

Ref: BT PF 160102/09 CHEMISTRY & INDUSTRY

04.11.02 Vol: 2002 No. 21

0009-3068

22304673

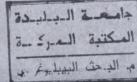
12.11.02

Df: 31146376

EDITIONS CHIHAB . LOT B5

B.P.744 REGHAIA GG ALGER

ALGERIE



Nanotechnology

brings fuel cells closer p4

quizzes UK nuclear policy p7

Outsourcing

can lead to big pharma benefits p22

This issue

www.chemind.org

Editor Simon Robinson

E-mail: editor@soci.org News Marina Murphy, Richard Butler, Lubomír Sedlák

E-mail: news@soci.org Features E-mail: features@soci.org Art Editor Julia Cheftel

Production Editor Laurence McJannet Editorial Administrator Princess Johnson

E-mail: enquiries@soci.org Advertising David Roberts, Lubin Reyes E-mail: advertising@soci.org

Editorial & Advertising Offices

14/15 Belgrave Square, London SW1X 8PS Tel: +44 (0)20 7598 1500 Fax: +44 (0)20 7235 9410 Advertising by Roscoe Services Limited

Sir James Black Kings College Hospital Medical School London Umberto Colombo ENEA, Rome Roald Hoffmann Cornell University,

Ralph Landau Listowel, NY Lord Lewis University of Cambridge, UK Yasunori Nishijima Kyoto University, Japan Gerhard Wegner Max-Planck-Institut für Polymerforschung, Mainz, Germany

Subscription enquiries can be sent by e-mail to subscriptions@soci.org. USA, Canada & Mexico subscription rate:

US\$560. Orders with payment to the Society of Chemical Industry, Turpin Distribution, Blackhorse Road, Letchworth, Herts SG6 1HN, UK. T: +44 (0)1462 672555; F: +44 (0)1462 480947. All copies sent air speed to the USA.

USA POSTMASTER: send address changes to Chemistry & Industry, 200 Meacham Avenue, Elmont, NY 11003. Periodical postage paid at Jamaica, NY 11431. Canadian GST Reg. No.

Japan subscription rate: £360. Orders with payment to USACO, 17-12, Higashi-Azabu, 2chome, Minato-ku, Tokyo 106-0044. Rest of world subscription rates: EU and ROW £360. Orders with payment to Society of Chemical Industry, Turpin Distribution (see above). Delivery outside UK by air speed.

Queries and address changes to SCI Member Services, 14/15 Belgrave Square, London SW1X 8PS. T: +44 (0)20 7598 1500; F: +44 (0)20 7823 1698; E-mail: members@soci.org;

Web address: www.soci.org. **Chemistry & Industry**

© Society of Chemical Industry 2002. ISSN 0009-3068. C&I is published twice a month by the Society of Chemical Industry, 14/15 Belgrave Square, London SW1X 8PS. Printed by Friary Press, Bridport Road, Dorchester, Dorset DT1 1JL.

Chemistry & Industry is editorially independent of, but published by, Society of Chemical Industry



Chemistry & Industry

Issue 21

Pages 1-36

4 November 2002

Regulars

News Diary **Patents** Reviews **Highlights Afterwords**

Pharma firms face pipeline problems The latest shows, exhibitions and meetings Data/analysis US feels the pinch as raw materials costs rise 14 Losing visceral fat and protecting babies' sight 23 Scientific discovery and petchem processes 28 **Applied chemistry** 34 and crossword

World summit

Tom Reilly, chairman of **SCI North America** section, the American Chemistry Council and Reilly Industries. talks about the United Nations World summit on sustainable development held in Johannesburg, South Africa, between 26 August - 4 September. He explains how the chemicals industry has a major role to play.



Cover illustration: Corbis



US industry

Speaking at SCI's 69th chemicals industry medal award dinner, at the end of October, former CEO of Eastman Chemical Earnest Deavenport examines areas to be addressed if US industry is to flourish in the future.



Outsourcing drugs

Outsourcing the drug discovery process can lead to significant benefits for pharmaceutical companies. Roger Crossley of UK-based Bio-Focus and Johan Kördel of Swedish company Biovitrum explain why.