

obituary

Leonard Ary Woodward died on June 5 at the age of 73. After starting at Oxford reading mathematics, he switched to chemistry for his final degree, and then went to Leipzig for his Ph.D. (1931), where he developed his lifelong interest in spectroscopy.

He came back to the UK, and, after working for a time at the DSIR, returned to Oxford in 1939, where he was to remain for the rest of his career. It was here that, during the war, he worked on the separation of uranium isotopes by diffusion, research which was to have such influential results. After the war, though, he resumed his work on Raman spectroscopy, a field to which he made major theoretical and experimental contributions. He was made the Aldrichian Praelector in Chemistry in 1966 and served for many years as Dean and then Vice-Principal of Jesus College.

Victor Ivor Little, reader in experimental physics at Royal Holloway College, University of London, died on

May 30 at the age of 56.

On graduating, in 1941 from King's College, London, he was swept up in the war effort, working on radar and the countermeasures to the V1 and V2. This experience confirmed his feelings of the practical importance of physics, an enthusiastic belief he later expressed in some measure by his work, as Chairman of the Examination Board, in restructuring the London 'A' level exams. He was also a brilliant lecturer.

His major scientific work was done in the field of non-linear optics; he early realised the exciting research possibilities of the laser. He was the first to show that standing laser radiation in fluids could create a three-dimensional grating—like a Bragg crystal grating, but on a much larger scale—and, more recently, he contributed to the development of very intense liquid laser sources.

William Bernard Crow, FLS, FZS, FRSM, died on June 28 at the age of 80. In a varied career as biologist

and anthropologist, he studied at the Universities of London and Wales, worked for the Ministry of Munitions in the First World War, returned to Cardiff as a lecturer, became head of the department of Biology at Huddersfield Technical College, senior lecturer at the South West Essex Technical College, a lecturer in adult education (Northern Command) during the Second World War, went to the Leicester College of Technology and finally became Head of the Department of Biology at the Davies, Laing and Dick Tutorial College.

His major scientific interest was in morphology. He published much research in this field as well as a textbook, *Contributions to the Principles of Morphology* (1929). His broad outside interests, however, are reflected in the titles of some of his other publications: *Voice and the Vocal Apparatus*; *The Science of Dreams*, *A Synopsis of Biology*, *A History of Magic, Witchcraft and Occultism* and *Occult Properties of Herbs*.

announcements

Appointments

Professor J. E. Enderby to the Chair of Physics at the University of Bristol. **Dr H. K. Moffatt** to the Chair of Applied Mathematics at the University of Bristol.

Professor D. L. Gardner to the Chair of Histopathology at the University of Manchester.

Dr T. B. Grimley and **Dr A. Ledwith** as Professors of Chemistry at the University of Liverpool.

Awards

The EPS Hewlett-Packard Europhysics Prize has been awarded to **Professor Wolfgang Helfrich** of the Freie Universität, Berlin for work on the physics of Liquid Crystals.

The President of the USA has awarded the National Medal of Science to: **John W. Backus** of San Francisco; **Manson Benedict** of Weston, Massachusetts; **Hans A. Bethe** of Ithaca, New York; **Shiing-Shen Chern** of El Cerrito, California; **George B. Dantzig**

of Stanford, California; **Hallowell Davis** of St Louis, Missouri; **Paul Gyorgy** (posthumous award); **Sterling Brown Hendricks** of Silver Spring, Maryland; **Joseph O. Hirschfelder** of Madison, Wisconsin; **William H. Pickering** of Pasadena, California; **Lewis H. Sarett** of Skillman, New Jersey; **Frederick E. Terman**, of Stanford, California, **Orville Alvin Vogel** of Pullman, Washington; **E. Bright Wilson, Jr** of Concord, Massachusetts and **Chien-Shiung Wu** of New York.

The Simon Memorial Prize of the Institute of Physics has been awarded to **Drs D. M. Lee, D. Osheroff** and **R. C. Richardson** for their work on the superfluid phase of ^3He .

Meetings

August 21–27, **Birth Defects**, Montreal (Deadline for abstracts: March 1, 1977) (International Birth Defects Congress Ltd, 1275 Mamoroneck Avenue, White Plains, New York 10605).

September 7–10, **Meeting of the Euro-**

pean Geophysical Society, Amsterdam (3rd EGS Meeting (Registration), c/o Vrije Universiteit, de Boelelaan 1105, Amsterdam).

September 13–15, **Solar Energy in Agriculture**, Reading (The Secretary, UK-ISES, The Royal Institution, 21 Albemarle Street, London W1X 4BS).

September 26–28, **Planning for Water and Waste in Hot Countries**, Loughborough (John Pickford, University of Technology, Loughborough, Leics. LE11 3TU, UK).

September 29–October 1, **Comparative Planetology**, College Park (Dr Cyril Ponnampuruma, Laboratory of Chemical Evolution, Department of Chemistry, University of Maryland, College Park, Maryland 20742).

September 30–October 1, **Pacific NW Regional Meeting of the AGU**, Victoria, British Columbia (Deadline for abstracts: August 27) (John T. Weaver, Dept of Physics, University of Victoria, Victoria, B.C., Canada V8W 2Y2).

October 18–20, **Protein Synthesis**,