

which examine aspects of the Severn Barrage, although there are also chapters on the proposed Mersey Barrage (perhaps a pilot project for the Severn itself) and the Annapolis Royal strata-flo turbine, which is actually in operation. The book covers a wide range of issues, in no apparent order. These include the civil engineering, planning and design, the economics, the environment and the infrastructural changes that might be anticipated. As with any feasibility (or even *pre* feasibility study as some authors prefer), the text is full of caution. This caution is even more apparent in the discussion which accompanies each set of papers. It is clear that opinions, and in places fact, still differ greatly, and that a consensus will only be reached when the barrage is actually built and in operation. The sheer range of options, in for example, alignment, power-generation and transmission, make it very difficult for the casual reader to assess the scheme fully. The greatest doubts appear in the economic and environmental chapters, where it is clear that "the experts" simply do not know exactly what

is going to happen. Even past experience, although limited, is now considered of little use, as Shaw points out on page 236. Among the great unknowns is the likely behaviour of the estuary sediment—dominated by mud—which could create expensive, and time-consuming, difficulties.

As the closing address says "A scheme is emerging." Yet far more work is needed. It is clear that the engineering costs, using traditional methods are too high, and the environmental impact too unknown. The great fear is that the scheme will go ahead too quickly, and eventually end in financial and environmental disaster. It is clear that both economy and the environment of southern Britain is at stake. This book is a sobering reflection on the problems to be faced, and as such must be recommended to all those interested in tidal power.

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Books Received

- FITZGERALD, D. M. and ROSEN, P. S., (eds.) 1987. *Glaciated Coasts. San Diego, Academic*, 364p. Price \$85.00, ISBN 0-12-257870-8.
- PLATT, R. H.; PELCZARSKI, S. G., and BURBANK, B. K. R., (eds.), 1987. *Cities on the Beach: Management Issues of Developed Coastal Barriers*. University of Chicago, Department of Geography, Research Paper No. 224. \$12.00. 324p. ISBN 0-89065-128-0. (Available from The University of Chicago, Dept. of Geography, 5828 South Illinois Avenue, Chicago, Illinois 60637-1583).
- EDWARDS, S. F., 1988. *An Introduction to Coastal Zone Economics: Concepts, Methods and Case Studies*. New York: Taylor and Francis, 134p. £13.50, ISBN 0-8448-1530-6.
- MACKEIRNAN, G. B., (ed.), 1988. *Dissolved Oxygen in Chesapeake Bay: Processes and Effects*. Maryland Sea Grant, Room 1224, H. J. Paterson Hall, College Park, Maryland, 20742. (Publication Number UM-SG-TS-87-03). Single copies free on request. 177p. No ISBN.
- MCCARTHY, J. J., (ed.), 1987. *Global Geochemical Cycles*, Volume 1, Part 3. American Geophysical Union, 2000 Florida Avenue NW, Washington DC 20009. Annual Subscription \$30 (4 issues) (AGU members, other subscription prices on request.) ISSN 0886-6236.
- TRENAMAN, N. L. and SHORT, A. D., 1987. *Deepwater and Breaker Wave Climate of the Sydney Region. New South Wales 1971-1985. Technical Report 87/1*. Coastal Studies Unit, Dept. Geography, University of Sydney, NSW 2006, Australia. AUS\$15.00. 157p. ISBN 0-909764-22-0.
- SHORT, A. D., 1988. *Beach Types—Characteristics and Hazards (Poster)*. From Coastal Studies Unit, Dept. Geography, University of Syd-

ney, NSW 2006, Australia. (AUS\$2.50 each, plus AUS\$2.50 postage for 1 to 8 copies—AUS\$2.00 in NSW.)

HECK, K. L., JR., (ed.), 1987. *Ecological Studies in the Middle Reach of Chesapeake Bay*. (Lecture Notes in Coastal and Estuarine Studies Number 23.) Berlin: Springer-Verlag, 287p. DM54. ISBN 3-540-96668-4.

SHAW, D. G. and HAMEEDI, M. J., (eds.), 1988. *Environmental Studies at Port Valdez: A Basis for Management*. (Lecture Notes in Coastal and Estuarine Studies Number 24.) Berlin: Springer-Verlag, 423p. DM79. ISBN 3-540-96677-3.

LEATHERMAN, S. P., 1988. *Cape Cod Field Trips*. Coastal Publication Series, Laboratory for Coastal Research, University of Maryland,

College Park, Maryland 20742. 132p. US\$6.00 (plus \$1.00 handling). No ISBN.

PUGH, D., 1987. *Tides, Surges and Mean Sea-Level*. Chichester: Wiley, 472p. US\$110.00. ISBN 0471-91505-X

WIND, H. G., 1987. *Impact of Sea-Level Rise on Society*. Rotterdam: Balkema, 208p. US\$50.00 (£28.50). ISBN 90-6191-7867.

JANSSON, B. O., (ed.), 1987. *Coastal-Offshore Ecosystem Interactions*. (Lecture Notes in Coastal and Estuarine Studies Number 22.) Berlin: Springer-Verlag, 367p. DM69. ISBN 3-540-19051-1.

SEELIGER, U., LACERDA, L. D., and PATCHINEELAM, S. R., (eds.), 1988. *Metals in the Coastal Environments of Latin America*. Berlin: Springer-Verlag, 297p. DM 84. ISBN 3.540-16945-8.



COASTAL CALENDAR

MARCH

1989

- 2-4 **Coastal Sediment Mobility, Eighth Symposium on Coastal Sedimentology**, Tallahassee, Florida. (Contact: W.F. Tanner, Geology Department, Florida State University, Tallahassee, FL 323206).
- 16-17 **Glaciomarine Environments: Processes and Sediments, meeting**, London, England. (Contact: J. D. Scourse, School of Ocean Sciences, University College of North Wales, Menai Bridge, Gwynedd LL59 5EY, UK. Telephone: 0248 351151 ext. 2872/2876).
- 20-23 **European Union of Geosciences, conference**, Strasbourg, France. (Contact: Organizing Committee EUGV, Geological Survey of Norway, P. O. Box 3006-Lade, N-7002 Trondheim, Norway).
- 23-26 **American Association of Petroleum Geologists, annual meeting**, San Antonio, Texas. (Contact: AAPG, Box 979, Tulsa, OK 74101. Telephone: (918) 584-2555).

APRIL

1989

- 17-20 **Long-Term Sea Level Change, AGU Chapman Conference**, Snowbird, Utah. (Contact: AGU Meetings, 2000 Florida Avenue NW, Washington, DC 20009. Telephone: (202) 462-6903).
- 24-26 **Sedimentology, 10th European Regional Meeting**, Budapest. (Contact: Mrs. A. Lukacs, Hungarian Geological Institute, Budapest XIV, Népstadion ut 14 H-1143, Hungary).

MAY

1989

- 1-4 **Offshore Technology Conference, meeting**, Houston, Texas. (Contact: Donna Anderson, Box 833686, Richardson, TX. Phone: (214) 669-0072).
- 8-12 **American Geophysical Union, spring meeting**, Baltimore, Maryland. (Contact: AGU Convention Director, 2000 Florida Avenue NW, Washington, DC 20009. Telephone: (202) 462-6903).