

Edited by F. M. Jardine and R. I. McCallum

CIRIA



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ENGINEERING AND HEALTH IN COMPRESSED AIR WORK

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This book is the record of the conference held in Oxford in 1992 organised by CIRIA, and cosponsored by the Health and Safety Executive, the British Tunnelling Society and the Medical Research Council's Decompression Sickness Panel. Containing keynote lectures and refereed papers on bone necrosis, decompression illness, engineering design and construction and the occupational health and safety of using compressed air and hyperbaric techniques in belowground construction works, the book consolidates international medical and engineering knowledge and experience on the use of these necessary construction techniques, and looks to how they can be safely used in the future.

Compressed air and other hyperbaric techniques are being adapted to match advanced engineering capabilities in caisson and tunnelling excavation. In so doing collaboration between engineers, medical practitioners and health and safety professionals is becoming increasingly important. These conference proceedings demonstrate not only that this long-standing collaboration is full of vigour, but also that there are many questions to be tackled. Records of ten discussion sessions are included, and a special feature is a glossary of engineering, diving and medical terms.

Engineering and Health in Compressed Air Work is the record of a milestone event that bought together key international authorities and practitioners to share their knowledge and experience. As such it is a unique source book for civil engineers, occupational health professionals and for medical researchers concerned with healthier and safer compressed air work.

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The cover photograph shows shaft sinking on the Cairo Wastewater Project, contract No. 4. Photocourtesy of Peter L. May and Tony Gee & Partners.

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