

## XIV Authors' Résumés

### Sidney N. Graybeal

Chief Scientist and Deputy Director of the National Center for Security Negotiations of Science Applications International Corporation (SAIC), has had a career in U.S. governmental service spanning twenty-nine years. Between 1976 and 1979, he was Director of the Office of Strategic Research of the Central Intelligence Agency (CIA). He also served in the CIA between 1950 and 1964, starting as a guided missile intelligence analyst and becoming chief of the Guided Missile and Space Division. During 12 years in the Arms Control and Disarmament Agency, he served as Alternate Executive Officer of the U.S. SALT Delegation through SALT I, was appointed a delegate to SALT II, and then served as the first U.S. Commissioner of the Standing Consultative Commission, the body responsible for implementing the SALT I agreements. He has received the President's Award for Distinguished Federal Civilian Service. At SAIC, he manages and contributes to analysis related to national security issues involving arms control, intelligence, security and long-range resource planning. He is Chairman of the Committee on Science and International Security of the American Association for the Advancement of Science. His undergraduate and graduate degrees are from the University of Maryland.

### George R. Lindsey

A Senior Research Fellow of the Canadian Institute of Strategic Studies, George Lindsey has been pursuing research on aerospace surveillance for the Canadian Institute for International Peace and Security, on strategic stability in the Arctic for the International Institute for Strategic Studies and on the recent history and future prospects for Canadian-American defence relations.

After service in the Royal Canadian Artillery in the Second World War, working on problems of the use of radar, Dr. Lindsey spent 37 years practising operational research in the Canadian Department of National Defence. During this

time he worked on problems of air defence, ballistic missile defence, antisubmarine warfare, nuclear strategy and arms control. He was head of the Canadian delegation to the High Level Group of the NATO Nuclear Planning Group, and Executive Chairman of the Undersea Systems Panel of the Technical Co-operation Program involving five countries. For 20 years he was Chief of the Operational Research and Analysis Establishment.

Dr. Lindsey is a graduate of the University of Toronto, Queen's, Cambridge (obtaining a PhD in nuclear physics) and the Canadian National Defence College. He is an Officer of the Order of Canada.

### James D. Macintosh

Senior Research Associate at the York University Centre for International and Strategic Studies in Toronto, James Macintosh works on issues associated with verification, the theory and practice of confidence building and the relationship between arms control and new military technologies.

Mr. Macintosh was a lecturer at York University before joining the Centre for International and Strategic Studies in 1982. He was named Senior Research Associate in charge of European Security Studies in 1985. He has enjoyed a lengthy research relationship with External Affairs and International Trade Canada's Verification Research Unit, for whom he has examined a number of verification and confidence-building research subjects. Mr. Macintosh is a graduate of York University and holds a BA and MA in Political Science.

### Patricia Bliss McFate

Senior Scientist and Program Director, the National Center for Security Negotiations. Her former positions include: President of the American-Scandinavian Foundation; Deputy Chairman of the National Endowment for the Humanities; Vice Provost, Professor of Engineering & Applied Science and Associate Professor of

