20th Anniversary of the co-operation between Professor Hiroakira Ono and the Bulletin of the Section of Logic provides opportunity to convey our genuine gratitude for the intellectual and personal assistance we have received from him in the past years.

While we cannot adequately do justice to the history of the co-operation in a few lines, we have been allotted to write at least about some facts.

Bulletin of the Section of Logic has been appearing since 1972; originally published by the Institute of Philosophy and Sociology of Polish Academy of Science and since 1992 by the Department of Logic and Methodology of Science at the University of Łódź. **Professor Hiroakira Ono has been the Collecting Editor of the BSL since 1988.**

To commemorate this landmark occasion and in recognition of his outstanding contribution, on 25 June 2007 the Senate of University of Łódź, on 19th Session of 2005-2008 term with the resolution no. 205, awarded the Medal of “University of Łódź for Society and Science” to Professor Hiroakira Ono. The medal was presented to Professor Ono by Pro-Rector in Charge of International Affairs UL, Professor Wojciech Jan Katner during a special ceremony in the Institute of Philosophy UL on 27 September 2007. The ceremony was attended by Dean of the Faculty of Philosophy and History, Professor Stefan Pytlas, Director of the Institute of Philosophy, Professor Grzegorz Malinowski and the staff of the Department of Logic and Methodology of Science UL. The medal was intended to offer public and professional recognition of the commitment of Professor Ono to the co-operation and of the significance of his works.

For the memorial lecture, Professor Hiroakira Ono talked on the subject of “An Algebraic Approach to Substructural Logics” in front of an attentive audience gathered at a special session of the Polish Philosophical Society. As the Author emphasised, by the title of his lecture he intended to honour professor Helena Rasiowa, the author of the book “An Algebraic...

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Hiroakira Ono is a logician and professor at Japan Advanced Institute of Science and Technology. He is internationally known for his research in non-classical logic, intermediate logics and modal logics, logic of knowledge and belief, substructural logics and residuated lattices, algebraic approach to non-classical logic, and applications of logic to computer science.

Professor Hiroakira Ono was born in Nagoya on October 12th, 1942. He studied at the University of Tokyo, he received B.Sc. in 1966, M.Sc. in 1968 in Physics. In 1973 he got Ph.D. in Mathematics from Kyoto University on the basis of the dissertation “A Study of Intermediate Predicate Logics” written under the supervision of Satoru Takasu. In 1968 he joined the Research Institute for Mathematical Science at Kyoto University as a research associate and then spent three years as an associate professor in the Department of Mathematics of Tsuda College, famous university for women founded by Umeko Tsuda (1864-1929), precursor of the Japanese education for women. In 1976 he moved to Hiroshima University where first he worked as an associate professor and in 1985 he was promoted to full professor; from 1976-1990 at Faculty of Integrated Arts and Sciences; and from 1990-1993 at Faculty of Engineering. In 1993 Ono moved to the just founded prestigious Japan Advanced Institute of Science and Technology (JAIST), where he currently works and chairs the Logic Group at School of Information Science. Since 2006 he is Vice-President of JAIST.

Professor Ono has authored or co-authored seven books (six in Japanese) and about seventy logical papers. He has delivered numerous invited addresses at national and international conferences. His research field is vast and imposing. He has devoted almost twenty years to the syntactic and semantic study of substructural logics. His main motive is to grasp various nonclassical logics (linear logic, relevant logics, Lukasiewicz’s many-valued logics, fuzzy logics, Lambek’s calculus, etc) within a uniform framework, and to study their properties as whole. In his opinion, a particularly in-
Interesting feature of this topic is that recent development of algebraic study of substructural logics has brought the subject into a closer relationship to the studies of ordered algebraic structures, universal algebra, and abstract algebraic logic. Thus, we can expect a birth of a new interdisciplinary research linking logic to algebra. In 1999, he started a research project called “Algebra & Substructural Logics”, organised three international workshops (first two in JAIST and the third in Kraków at Jagiellonian University), and edited special issues in different international journals. The research resulted in the publication of an interesting and important book “Residuated Lattices: an Algebraic Glimpse at Substructural Logics” written together with N. Galatos, P. Jipsen, and T. Kowalski. His early concern was mainly in intermediate and modal logics. In particular, he greatly contributed to the research of intermediate or modal predicate logics - the theme of his Ph.D. thesis, and published several important papers on this topic. In algebraic research he resorted to the works of Polish logic especially to Helena Rasiowa, Cecylia Rauszer and Andrzej Wroński who were also his friends.

Apart from developing a general theory of both multi-modal and intuitionistic modal propositional logics he works on logical aspects of reasonings and judgements appearing in everyday life, based on logic of knowledge and belief. Another important subject of Professor Ono research is connected with mechanical theorem proving, especially with theorem provers for nonclassical logics, in particular for modal logics and substructural logics.

Among his many honours: Professor Ono was visiting professor at University of Sienna, University of Florence, and RSISE Australian National University.

Professor Ono teaches and supervises regularly a group of students and many his ex-students are now among leading logicians. In 1994 he published an introductory textbook on mathematical logic (in Japanese), which is now standard in Japan.

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The present volume of Bulletin of the Section of Logic is dedicated to Professor Hiroakira Ono. The authors of articles collected are Professor Onos friends or students (or both). Its issue has provided an opportunity to express our sincere gratitude, to recognise his distinguished contribution to the research in logic and to value enormously the friendship we have developed with Professor Ono. We believe that our co-operation shall be further continued and our friendship cherished. On this happy occasion, we wish Professor Ono every success in his future endeavours.

Editorial Board of the BSL,
Piotr Lukowski, the editor of the special issue