



universität
wien

Fakultät für
Mathematik

Einladung

zur

Verleihung

der

Goldenen Doktordiplome

an

Univ.-Prof. i.R. Dr. Gerd Baron
Emer. o. Univ.-Prof. Dr. Fritz Schweiger
Emer. o. Univ.-Prof. Dr. Hans Peter Zima

am

Mittwoch, 14. Mai 2014

Programm

16:00 Uhr Begrüßung
Dekan Univ.-Prof. Dr. Harald RINDLER

16:15 Uhr Laudatio für Prof. Baron
Univ.-Prof. Dipl.-Ing. Dr. Michael DRMOTA

Überreichung des Goldenen Doktordiploms an Prof. Baron
durch *Dekan Univ.-Prof. Dr. Harald RINDLER*

16:30 Uhr Ansprache des Jubilars
Univ.-Prof. i.R. Dr. Gerd BARON

16:45 Uhr Laudatio für Prof. Schweiger
Univ.-Prof. Mag. Dr. Roland FISCHER

Überreichung des Goldenen Doktordiploms an
Prof. Schweiger durch *Dekan Univ.-Prof. Dr. Harald RINDLER*

17:00 Uhr Ansprache des Jubilars
Emer. o. Univ.-Prof. Dr. Fritz SCHWEIGER

17:15 Uhr Laudatio für Prof. Zima
Univ.-Prof. Dipl.-Ing. Dr. Siegfried BENKNER

Überreichung des Goldenen Doktordiploms an Prof. Zima
durch *Dekan Univ.-Prof. Dr. Harald RINDLER*

17:30 Uhr Ansprache des Jubilars
Emer. o. Univ.-Prof. Dr. Hans Peter ZIMA

anschließend Buffet

Zeit: Mittwoch, 14. Mai 2014
ab 15:30 Uhr: Kleiner Empfang

Ort: Sky Lounge, Oskar-Morgenstern-Platz 1, 1090 Wien

Um Anmeldung bis Dienstag 22. April 2014 wird gebeten.
(Tel. +43 (0)1/4277/56003 oder
dekanat.mathematik@univie.ac.at)

Gerd Baron



Geboren am 26. September 1940

Ausbildung

28. Mai 1958 Matura an der (Beethoven) Realschule in Wien Döbling
Studium der Mathematik und Astronomie an der Universität Wien
gleichzeitig außerordentlicher Hörer an der Technischen Hochschule Wien
Dr. phil, Universität Wien, 1964 Betreuer Doz. Izbicki
Juni 1973 Verleihung der Venia Legendi für Mathematik an der TH Wien

Beruflicher Werdegang

1964-1976 Hochschulassistent 3. Institut für Mathematik TH-Wien
1976 Ernennung zum außerordentlichen Professor am 3. Institut für
Mathematik an der Technischen Universität Wien
30. September 2005 Versetzung in den Ruhestand als Univ. Prof.

Akademische Tätigkeit

Oftmaliger Instituts- und Abteilungsleiter, Mitglied im Fakultätskollegium,
Sprecher der Professorenkurie
Juni 1973 Mitglied der Bundesstaatlichen Prüfungskommission für das
Lehramt an Höheren Schulen bis zu deren Auflösung

Betreuung und Koordination mathematischer Wettbewerbe

1969 Beginn der Vorbereitungskurse für die erste Österreichische
Mathematikolympiade (ÖMO) Kursleiter; 1970: 1. ÖMO
Ab 1975 Verantwortlicher Autor für die Auswahl der Aufgaben für die
Wettbewerbe innerhalb der ÖMO. (Wissenschaftlicher Leiter der ÖMO)
1976 Internationale Mathematikolympiade (IMO) in Österreich. Präsident der
Jury, Mitglied des Organisationskomitees.
1978-2006 Österreichisch Polnischer Mathematikwettbewerb (ÖPMW) Leiter
der Österreichischen Delegation.
Seit etwa 1980 wissenschaftlicher Leiter des „Vorbereitungskurses für die
Leiter der Vorbereitungskurse“ (Kursleiterseminar)
2007 Erste Mitteleuropäische Mathematikolympiade (MEMO) in Eisenstadt.
Wissenschaftlicher Leiter.
2008-2013 (2014) Leiter der österreichischen Mannschaft bei den
weiteren MEMOs. Jeweils Autor eingereicherter Aufgaben.
Seit 1991 Mitarbeiter (Beispielautor und Auswahl der Aufgaben) und
Organisator des Wiener Mathematik- und Denksportwettbewerbs (WMDW)
Seit 1996 Mitarbeiter (Beispielautor, Auswahl der Beispiele) bei der Jagd auf
Zahlen und Figuren veranstaltet von Dipl. Ing. Dr. Mischak.

Privat

Juni 1966 Verheiratung mit Mag. Hedwig Lohner
Dezember 1967 Geburt der Tochter Karin Gudrun
Juni 1973 Geburt des Sohnes Dieter Norbert (zwei Enkel Calvin und Nicolas)

Fritz Schweiger

Geboren am 20. September 1942 in Wien

Ausbildung

1960 Matura, Mödling

Studium der Mathematik und Physik an der Universität Wien

Dr. phil., Universität Wien 1964

1968 Universitätsdozent für Mathematik, Universität Wien

Beruflicher Werdegang

1964-1969 Hochschulassistent, Institut für Mathematik der Universität Wien

1969-1973 Univ.-Prof. für Mathematik, Universität Salzburg

seit 1973 Univ.-Prof. für Mathematik und Mathematikdidaktik, Universität Salzburg

1974/75 Visiting Professor of Mathematics, Michigan State University (East Lansing, USA)

1981 Visiting Professor of Mathematics, Monash University (Clayton, Australien)

1984 Visiting Professor of Mathematics Education, Universität Innsbruck

1991 Visiting Professor of Mathematics, Monash University (Clayton, Australien)

1993 Visiting Professor of Mathematics, Tsuda College (Tokyo, Japan)

Forschungs- und Interessensgebiete

Zahlentheorie und Ergodentheorie (rund 85 Arbeiten)

Mathematikdidaktik (ca. 85 Arbeiten)

Sprachwissenschaft (ca. 30 Arbeiten)

Interesse an Theologie und Musiktheater (mit gelegentlichen Beiträgen)

Akademische Tätigkeit

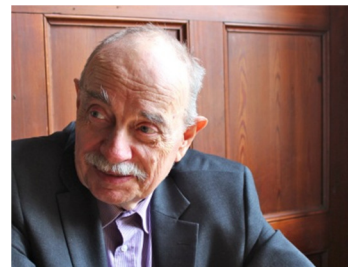
1977-1979, 1985-1987, 1999-2003 Dekan der Naturwissenschaftlichen Fakultät

1987-1989 Rektor der Universität Salzburg

Ehrungen

1989 Doctor of Science h.c., Bowling Green State University, Ohio

seit 1993 Korrespondierendes Mitglied der Österreichischen Akademie der Wissenschaften



Hans Peter Zima

Born in Vienna on May 12, 1941

Professor Emeritus, University of Vienna, Austria

and

Principal Scientist (retired), Jet Propulsion Laboratory, California

Institute of Technology, Pasadena, CA



Hans P. Zima studied at the University of Vienna, Austria, where he received his Ph.D. degree in Mathematics and Astronomy in 1964. He began his career in Computer Science that year at a company owned by the German computer pioneer Konrad Zuse and continued to work for computer manufacturers and software companies in Germany and the USA until 1973. During this period his responsibilities included the development of a commercial optimizing Algol 60 compiler (1969) and the design and implementation of PROGRESS, one of the first high-level real-time programming languages (1970-1973) at System Development Corporation in Santa Monica, California.

In 1973, Dr. Zima accepted a research position at the University of Karlsruhe, Germany; two years later he was appointed Professor for Computer Science at the University of Bonn, Germany, a position which he held until 1989. His research during that period initially dealt with the modeling of systems of parallel processes in shared-memory architectures, leading to his first book "Operating Systems: Parallel Processes" (1976, in German). Research on data flow analysis and optimization algorithms in compilers for imperative programming languages resulted in the publication of two subsequent books dealing with the theory and practice of optimizing compiler development (1982/83). During a sabbatical semester spent at the IBM Research Laboratory in San Jose, California, he worked for a year with Peter Lucas on constraint languages and expert systems (1983/84).

Motivated and supported by the first German supercomputer project, "SUPRENUM", Dr. Zima and his group at Bonn University started conducting research in the area of high-level language, compiler, and tool support for massively parallel distributed-memory architectures in 1985, beginning a scientific journey that would last for over 20 years. An early result of this work was the development of SUPERB, the first Fortran-based compilation system for distributed-memory architectures. SUPERB converts sequential Fortran 77 programs augmented with data distribution directives into explicitly parallel message-passing programs. The first Ph.D. thesis in this field, by Michael Gerndt, was an important step in the direction towards high-level languages for scalable architectures, such as High Performance Fortran (HPF) and, later, the languages developed in DARPA's High Productivity Computing Systems (HPCS) program.

Between 1988 and 1989 Dr. Zima spent a year at Rice University working with Ken Kennedy on parallelizing compiler technology. During that period he finished his book "Supercompilers for Parallel and Vector Computers", written

together with Barbara Chapman (1990), with a Japanese translation published in 1991. This was the first book to coherently describe analysis and compilation technology for parallelizing compilers.

After returning from Rice University Dr. Zima accepted a professorship for Applied Computer Science at the University of Vienna (1989). The experience gained with early compiler work paved the way for the development of the data-parallel Vienna Fortran language (1992), which was defined in a joint effort together with Barbara Chapman and Piyush Mehrotra. Vienna Fortran was the first language to provide a complete specification of mapping constructs in the context of Fortran, offering high-level features for data distribution and alignment as well as work distribution; it became a major input for the High Performance Fortran (HPF) development. The language work of the Vienna Institute headed by Dr. Zima continued beyond HPF, with the objective of improving target code efficiency and broadening the application spectrum. This resulted in the design of the HPF+ and Opus languages, and in the development of the Vienna Fortran Compiler, a Fortran 90-based compilation and runtime system supporting irregular, adaptive, and heterogeneous applications. The design of HPF+ (1996-1998), conducted within a European Union ESPRIT project in cooperation with industrial application developers, focused on enhancing the performance of advanced applications such as weather forecasting, crash simulation, and combustion engine simulation; Opus provides a high-level task-parallel interface for multidisciplinary applications running on heterogeneous systems. Additional work in the Vienna research group led to a range of tools for performance analysis and source-level debugging, supporting efficient high-level programming for parallel machines. From 1997 through 2007, Dr. Zima headed the Priority Research Program Aurora, a program funded by the Austrian Science Foundation (FWF). A major goal pursued by the Aurora project was to achieve synergy between language, compiler and tool designers on the one hand, and application designers in fields such as material science, photonics, semiconductor simulation and financial optimization on the other hand.

After spending a sabbatical semester at the California Institute of Technology in 1999/2000, Dr. Zima assumed a position as Principal Scientist at the Jet Propulsion Laboratory, California Institute of Technology. His responsibilities included the design of the software architecture and high-level programming support for massively parallel architectures. From 2002 through 2006, he worked in the Cray-led Cascade project of the DARPA-sponsored High Productivity Computing Systems (HPCS) program, playing a leading role in the development of the Cascade high-level programming language, Chapel, and an introspection-based infrastructure for autonomous system operation. Furthermore, Dr. Zima led an Advisory Committee for DARPA developing a research agenda for high-productivity programming language systems. More recently, he became involved in the design of fault-tolerant software environments for future autonomous high capability spaceborne computing systems.

In October 2007, Dr. Zima became a Professor Emeritus at the University of Vienna, Austria. After retiring from the Jet Propulsion Laboratory in October 2011, Dr. Zima has continued working as a consultant in NASA's next-generation on-board architecture design effort, and in advanced software research for future massively parallel exascale systems.

Dr. Zima is the author or co-author of about 200 publications, White Papers, and Technical Reports, including 4 books and 130 refereed publications. He has presented about 300 scientific lectures at universities, research institutions, and international conferences. He served as General Chair of the ACM International Conference on Supercomputing (ICS'97) in Vienna, as Program Chair or Vice Program Chair at a number of international conferences, and has been a member of more than 50 Program Committees.

He is a founding member of the editorial boards of the Journal for Universal Computer Science (J.UCS), the International Journal of High Performance Computing and Networking (IJHPCN), and the International Journal of Computational Science and Engineering (IJCSE); and an editorial board member of Concurrency: Practice and Experience, and Parallel Processing Letters. Dr. Zima has been regularly a member of review boards for academic promotions, and of Ph.D. and Habilitation committees. He has reviewed a large number of papers for international conferences and journals, including IEEE Transactions on Parallel and Distributed Systems, ACM Computing Surveys, Parallel Computing, and Concurrency: Practice and Experience. Furthermore, he has been a member of review panels for the National Science Foundation (NSF) and the European Union's ESPRIT Research Program as well as national research agencies in Germany, India, Italy, Ireland, and Austria. He served on the European Union's HPCN Advisory Board and as a member of the Steering Committee of the ACM International Conference on Supercomputing and of the Advisory Board for the EUROPAR Series of Conferences and the book series "Advances in Computing Science" published by Springer Verlag.

Dr. Zima is a member of the Association for Computing (ACM), IEEE, Gesellschaft für Informatik (Germany), the Humboldt Society (Germany), the Austrian Computer Society, and the Planetary Society.

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