MECHANIKA TEORETYCZNA I STOSOWANA Journal of Theoretical and Applied Mechanics 4, 35, 1997

BIULETYN INFORMACYJNY PTMTS

Z wielką dumą i radością pragniemy poinformować, że członkowie naszego Towarzystwa otrzymali tytul:

Profesora

16 grudnia 1996 roku

- Andrzej Garstecki Politechnika Poznańska
- Jerzy Honczarenko Politechnika Szczecińska

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Report on the XXXI Polish Solid Mechanics Conference SolMec'96

The XXXI Polish Solid Mechanics Conference SolMec'96 organized by IPPT PAN (Institute of Fundamental Technological Research of the Polish Academy of Science), Komitet Mechaniki (Committee of Mechanics of the Academy of Sciences) and with a financial support of the Stiftung für deutsch-polnische Zusammenarbeit (Foundation of the German-Polish Cooperation), was held on September 9-14, 1996, at the Hotel Resort Centre Kormoran in Mierki, near Olsztynek, approximately 25 km

south of Olsztyn (Warmia-Mazury lake district) and approximately 200 km north of Warsaw.

The SolMec'96 Conference belongs to the series of conferences dedicate to mechanics of solids that have been organized by IPPT PAN, has a long tradition, dating back to 1953 when the first conference was held in Southern Poland in the city of Karpacz. In 1970, the Conference was opened to international participation and renamed the Polish Solid Mechanics Conference, with English as the conference language. Since 1982 the Conference is held biennially in August or September.

The SolMec'96 Conference hosted 238 scientists from 20 countries, including: Austria, Belgium, Czech Republic, Finland, France, Germany, Great Britain, Greece, Hungary, Italy, Japan, Russia, Spain, Switzerland, Turkey, Republic of South Africa,

Romania, Ukraine and USA.

The number of papers presented at the XXXI Polish Solid Mechanics Conference exceeded 200, including almost 90 papers from abroad. The program of the conference included the invited opening, 15 general and closing lectures, as well as almost 200 contributed papers presented as lectures or at the poster sessions. Each contribution had an oral presentation either 3 or 20 minutes, depending on the type of session, and were arranged according to the subject considered.

The main topics of the Conference were as follows:

- mechanics and thermodynamics of solids with microstructure
- · dynamics of solids and structures
- · plasticity, damage and fracture mechanics
- · mathematical and computer methods in mechanics and engineering sciences
- experimental methods in mechanics
- contact and interface problems in mechanics
- environmental mechanics
- porous media

The Conference provided a forum for presentation of new scientific results and ideas in all major areas of contemporary mechanics of solids, porous media and structures. The participants coming from 20 countries enriched the Conference with excellent scientific contributions and stimulating discussions during the general, sectional and poster sessions. The high level of the presented papers and the friendly atmosphere created by the participants certainly contributed to the success of the Conference.

Special attention of the organizers and participants coming to the Conference from several academic and research centers all over the world was paid to problems of environmental mechanics. The Organizing Committee of the Conference, together with Professors Schrefler from Padova and Professor Kleiber and Dr. Gajl from Warsaw, organized a TEMPUS – sponsored Intensive Course on Environmental Mechanics during the SolMec'96 Conference.

As a supplementary meeting, the KBN-sponsored Conference on: "Coupled and Surface Phenomena in Mechanics and Technology" was organized, during which research projects financed by the KBN (State Committee for Scientific Research) were

presented.

During the SolMec'96 Conference, an INTERNET Session was organized with the help of COMP Ltd., Warsaw, Poland, and after the Conference, the Book of Abstracts will be available on the WWW – page: http://www.ippt.gov.pl/solmec96.

Some of the scientists coming from Russia obtained financial support for their travel expenses from the International Science Foundation and for a reduction of the

registration fees and their living expenses from the Organizing Committee. All German participants and some Polish ones obtained financial support to reduce the registration fees from the Stiftung für deutsch – polnische Zusammenarbeit. Other Polish participants obtained a reduction of the registration fees from the Organizing Committee.

The Scientific Committee of the XXXI Solid Mechanics Conference SolMec'96 has encouraged all German and Polish authors of oral and poster presentations at the Conference to publish their contributions dedicated to environmental and damage mechanics in the form of the Conference Proceedings Volume. Such a volume on "Problems of Environmental and Damage Mechanics", edited by W. Kosiński (IPPT PAN, Warszawa), R. de Boer (Universität – GH Essen) and D. Gross (TH Darmstadt) and has been recently published, and it contains 13 reviewed contributions of researchers working either in Germany or in Poland, as well as the list of all presentations at SolMec'96. The editors of the Volume represent three different research and academic institutions in Poland and Germany that have been collaborating for many years.

The Editorial Committees of two journals that have appeared for more than 40 years, and are edited by the Institute of Fundamental Technological Research (IPPT PAN), namely Archives of Mechanics and Engineering Transactions invited all authors of oral and poster presentations at the SolMec'96 Conference to publish their contributions in special issues of the both Journals.

Two special issues of Archives of Mechanics, namely numbers 2 and 3 of vol 49, have appeared in 1997, and they contain reviewed contributions of a more basic orientation. One special issue of Engineering Transactions, namely number 1 of volume 45, has been printed simultaneously and it contains the contributions of a more engineering character.

Some other contribution submitted to the both Journals with a delay appear in next regular issues, however all of them are printed with the SolMec'96 Conference emblem.

Witold Kosiński Chairmen of the Conference

Konferencje

International Workshop "Modeling of Damage, Localization and Fracture Processes in Engineering Materials"

May 31 - June 2 1998, Kazimierz Dolny, Poland

The objective of the workshop is to present analytical numerical methods used in modern mechanics to quantify diverse failure processes (e.g. damage, fracture, strain localization) that occur in engineering materials under static and dynamic loading conditions. The program will include the following keynote lectures:

- Recent results in the dynamics of stationary and running cracks (D. Gross, Darmstadt)
- Instabilities, localization and rupture in solids (A. Benallal, Cachan)
- Multiaxial fatigue and damage conditions
 (Z. Mróz, Warszawa)
- Analysis of the stable and unstable crack growth (A. Neimitz, Kielce)
- Continuum Damage Mechanics modeling of metals and metallic structures for creep- and elastic-damage conditions
 - (J. Skrzypek, Kraków)
- Micromechancal, phenomenological and network modeling of brittle damage

(M. Basista, Warszawa)

The participants will also have an opportunity to communicate their own work during a combined oral-poster session to be organized under the auspices of the Polish State Committee for Scientific Research (KBN). For details concerning the abstract submission, registration and accommodation conditions, please contact:

Dr Michał Basista E-mail: mbasista@ippt.gov.pl.

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Poland

GAMM-Conference 1998, in Bremen in the 15, week 1998.

The Chairmen are Prof. H.J. Rath and Prof. D. Hinrichsen, all correspondence to:

Prof. Dr.-Ing. Hans J. Rath

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INFORMATION FOR AUTHORS

General remarks

Both survey papers and theoretical and experimental papers on mechanics not being published elsewhere can be proposed.

In our Information Bulletin we publish the reports of conferences on mechanics as well as the activity of the Polish Society of Theoretical an Applied Mechanics accounts.

We accept articles in English, not exceeding the length of 20 standard pages. Two copies + diskette of the material for publication should be sent to the Editorial Office (IATEX or TEX and graphical files *.pcx preferable).

Articles are selected for publication through the review process.

Publication in JTAM is free of charge. The Authors will receive 1 copy of JTAM and 15 reprints of the article.

Details

Information in proposed manuscripts should appear in the following order:

- Article title
- Author's full Name and the place of employment (Institute or Department, University, e-mail)
- Short summary (maximum 10 lines) and key words
- Article text (equations should be numbered separately in each section; each reference should be cited in the text by means of the last name(s) of author(s) and the date of publication of the reference)
- References in alphabetical order (russian in transcription). See the following:
 - For journals Achen S.C., 1989, A New Boundary Integral Equation Formulation, Journal of Applied Mechanics, 56, 2, 297-303
 - For books Boley B.A., Weiner J.H., 1960, Theory of Thermal Stresses, Wiley, New York
 - 3. For theses Canon W., 1955, Vibrations of Heated Beams, Ph.D.Thesis, Columbia University, New York
 - For proceedings Deresiewicz H., 1958, Solution of the Equations of Thermoelasticity, Proc. Third U.S. National Congress of Applied Mechanics, 287-305
- Figure captions (if any)
- Article title and short summary in Polish.

Figures should be camera-ready prepared (on separate sheets). All data should be reported in SI units.