1969
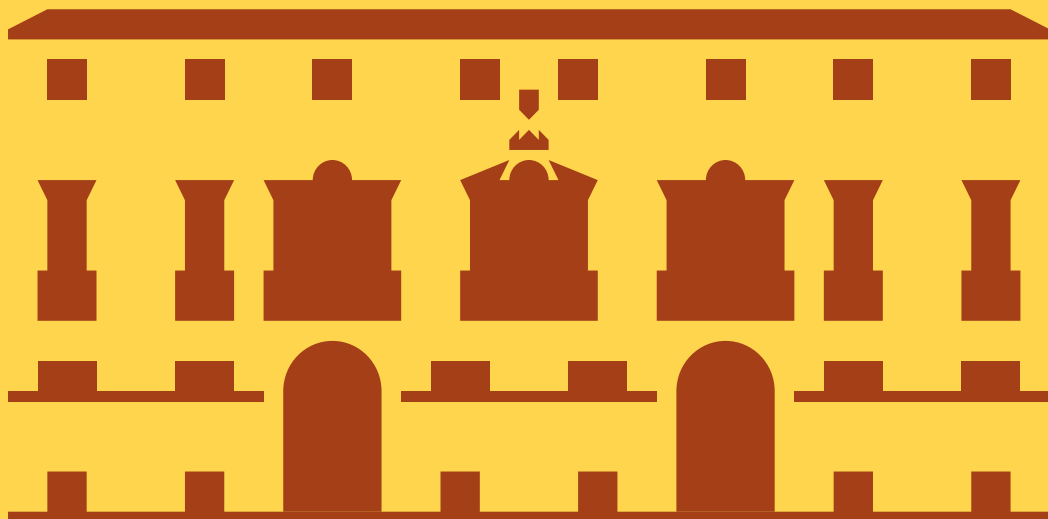# 2019

CENTRO INTERNAZIONALE DI SCIENZE MECCANICHE

INTERNATIONAL CENTRE FOR MECHANICAL SCIENCES

CENTRE INTERNATIONAL DES SCIENCES MÉCANIQUES

**INTERNATIONAL
CENTRE FOR
MECHANICAL
SCIENCES**

**CENTRE
INTERNATIONAL
DES SCIENCES
MÉCANIQUES**

UDINE
PALAZZO DEL TORSO

1969 – 2019

INTRODUCTION

The International Centre for Mechanical Sciences (CISM) was founded fifty years ago, thanks to the vision and determination of Luigi Sobrero. His idea was to establish an international centre for advanced studies in Mechanics and related Sciences, which would foster the exchange of ideas and experiences between scientists and young researchers from all over the world, with a special emphasis on establishing firm relationships between scientists of the Western and Eastern blocks at the time of the iron curtain. Having gathered together an international group of interested scientists, he then successfully enlisted the support of a number of local institutions in the North-Eastern Italian Region of Friuli Venezia Giulia.

It was a historical occasion and one which provided the Region of Friuli Venezia Giulia, and Udine in particular, with the opportunity to play a leading role in bringing together people from different countries, cultures and backgrounds, a role to which the region has long been accustomed. Much has been achieved since the first steps were taken to organize the Centre and launch its scientific activities. This success owes much to the commitment of the Region of Friuli Venezia Giulia and particularly of the three founding bodies—the Province of Udine, at the time led by Antonio Venicio Turello, the Bank "Cassa di Risparmio di Udine e Pordenone" and the Municipality of Udine, which immediately put the prestigious and ideally suited Palazzo del Torso at the Centre's disposal.

It is however mainly due to the foresight and determination of Venicio Turello that the proposal of Luigi Sobrero was accepted and promoted among the local institutions. As President of CISM from the foundation until his death in 2013, Turello was instrumental in finding the necessary means for the ongoing activities and granting the necessary scientific freedom to the Centre. His goal was to make CISM a pole of attraction for many eminent scientists from allover the world and consequently an advanced reference point for the development of Friuli. This aspiration became reality on the occasion of the devastating earthquake in 1976 when CISM put at the disposal of the local community the most advanced building technologies for the reconstruction.

In its fifty years of activity in the field of Mechanics and its related Sciences, the Centre has indeed become an international scientific organization of considerable repute. This is manifested by the wide geographical provenience of all its participants and the number of scientific institutions and international organizations which financially support the Centre and are represented in its councils.

Moreover, the activities of the Centre have contributed greatly to develop friendly bonds among researchers that came from various parts of the world. To these people, bearing the imprint of diverse political and economic traditions, the Centre has provided a place to meet

for the benefit of science and citizens worldwide. Today, Friuli and Udine are internationally familiar names within scientific circles and provide a point of reference for both scientists and researchers in many branches of the Mechanical Sciences.

In the last years, the Centre has also undertaken activities of multidisciplinary scientific research related to Mechanical Sciences. Furthermore, following the foundation of the University of Udine in 1978, a fruitful and strong cooperation has been established between the Centre and the University.

Udine, April 2019

Mario Pezzetta

AIMS AND STRUCTURE

According to the Statute of CISM, "...The purpose of the Centre is to promote, on a non-profit basis, research in the Mechanical Sciences and related multidisciplinary sciences, favour the exchange, diffusion, and application of the most advanced knowledge in this field, establish active relations with similar national, or international institutions, enlist the cooperation of the most qualified scientists and researchers throughout the world, set up research laboratories and libraries, organize courses and seminars of a high scientific level..."

According to the Statute, the following bodies and individuals are responsible for its management:

a) The Academic Assembly, a general assembly which determines the overall direction of the Centre's activities;

b) The Board of Directors, which approves the budget according to the programme of activties;

c) The Scientific Council, which discusses course proposals and other scientific matters and submits the annual programme of scientific activities to the Board of Directors. The Scientific Council is chaired in rotation by three Rectors of different nationalities who are responsible for the scientific content of CISM's activities and for maintaining high academic standards;

d) The Rectors' Committee, composed of the three Rectors, the Secretary General and the Vice-Secretary General, discusses teaching and scientific activities, course proposals and prepares these for submission to the Scientific Council;

e) The President of CISM who is the Chairman of the Board of Directors and the legal representative of the Centre, is responsible for all matters concerning CISM's regular functioning. By Statute, he is also chairman of the Academic Assembly;

f) The Secretary General, who is responsible for preparing and implementing the decisions of the various executive bodies of the Centre and is assisted by the Vice-Secretary General.

THE FIRST FIFTY YEARS

The work of CISM during these fifty years has been very intense. When the Centre was founded, scientific research was advancing at a rapid pace and universities were encountering difficulties in adjusting to new developments and realities. This had led to a gap between the average university graduate's level of scientific knowledge and the one required for carrying out high-level research.

CISM's principal idea was precisely to close this gap, by creating a centre where the best scientific minds—in a quiet, informal and efficient environment—could meet both young people wishing to carry out research work and more experienced teachers eager to keep pace with modern developments through short, intensive courses. The Centre's activities developed as a natural consequence of this main idea.

Science knows no national boundaries and the Centre therefore not only welcomes teachers and students from all over the world but, in accordance with its Charter, also invites all international institutions to contribute to its activities. At present, national and international institutions from twelve countries directly support the Centre. A distinctive aspect of the CISM's work regards its annual schools, usually held twice a year, in Summer and Autumn. During the rest of the year, the Centre hosts a variety of scientific and cultural events, including national conventions, international congresses, round tables and lectures to local audiences, putting its buildings, premises and experienced staff at the disposal of outside organizations.

The Centre endeavours to establish technical and scientific links with the local community, who plays an important role in supporting CISM. In 1976 for example after the disastrous earthquake in Friuli, CISM promoted and organized important courses on earthquake engineering. On that occasion, classrooms were crowded with architects and civil engineers engaged in reconstruction work.

Considering the great transformations that presently affect manufacturing processes, CISM offers managers and entrepreneurs the opportunity to participate in its advanced schools and to widen their knowledge as well as to favour innovative solutions for the local production system.

In 2006 CISM-Lab has been established as a CISM's spin-off with the aim of providing solutions to problems arising both in local administrations and in technologically advanced industries. Moreover, due to its formal qualification as a research unit, CISM-Lab can participate in EU-funded Research and Innovation Projects.

Another important opportunity to forge links with local institutions was offered by the creation of the University of Udine in 1978, which subsequently signed a cooperative agreement with CISM. Since then a close relationship has developed between the two institutions.In 2015 another agreement has been signed with the University with the aim of promoting joint strategic activities toward a larger internationalization of the University. In addition, they share the use of a guesthouse, available for visiting researchers and lecturers.

Since its courses and conferences have always attracted the interest of the international scientific community, and since the number of participants must necessarily be limited, CISM endeavours to make the content of the lectures and courses held in its classrooms more widely

available through the publication of books. Already at the time of the Centre's foundation a contract was signed between CISM and Springer-Verlag, Vienna, to distribute worldwide the lecture notes. Until 2015 the volumes were printed by CISM. Now they are printed directly by Springer. The 590 books published to date constitute an important collection of specialized texts, which represent a record of the Centre's activities and testifies the high standards of its scientific work. Presently all books are available also on digital support.

A further characteristic of CISM's work concerns its unprejudiced approach to all scientific disciplines. The adjective "mechanical", which qualifies the sciences studied at the Centre, is not restrictive but extensive. This explains why CISM is interested in the whole range of classical and contemporary Mechanics, in both its theoretical and application aspects, and sensitive to developments in other related scientific disciplines such as Computer Science, Applied Mathematics and Economics.

The foundation of CISM

INTERNATIONAL LINKS

CISM's international character is also witnessed in the composition of the institutions, which contribute to the organization of the Centre and its activities (see Appendix B2), the representatives of which, in accordance with the provisions of CISM's statute, constitute its governing bodies.

Lists indicating the countries of origin of lecturers and those participating in CISM's activities are given in Appendix A5 and Appendix A6, respectively.

The Centre maintains close relations with important international organizations. CISM was the first institution affiliated to IUTAM (The International Union of Theoretical and Applied Mechanics). In addition, it cooperates on a long-term basis with IFToMM (International Federation for the Promotion of Mechanism and Machine Science) with GAMM (Gesellschaft für Angewandte Mathematik und Mechanik), EUROMECH (European Mechanics Society), IACM (International Association for Computational Mechanics) and ECCOMAS (European Community on Computational Methods in Applied Sciences). CISM has also hosted meetings of the governing bodies of the above institutions on several occasions and is the official site of IFToMM's, IUTAM's and EUROMECH's historical archives. From 2003 to 2013 it was the site of EUROMECH's secretariat.

The Centre has also received assistance and/or financial support from the following institutions:

– Danubia-Adria Committee for Experimental Mechanics, which includes the following institutions:

- AIAS (Associazione Italiana per l'Analisi delle Sollecitazioni)
- ASESA (Austrian Society of Experimental Strain Analysis)
- CSM (Czech Society for Mechanics)
- GTE (Hungarian Scientific Society of Mechanical Engineers)
- HDM (Croatian Society of Mechanics)
- SSM (Slovak Society for Mechanics)

– EAEE (European Association for Earthquake Engineering)

– EC (European Commission)

– EPCSA (European Permanent Council for Stress Analysis)

– ESIS (European Structural Integrity Society)

– EU (European Union)

– GACM (German Association of Computational Mechanics)

– GIMC/AIMETA (Italian Group of Computational Mechanics)

– IABEM (International Association for Boundary Element Methods)

– IABSE (International Association for Bridge and Structural Engineering)

– IASS (International Association for Shell and Spatial Structures)

- ICOLD (International Commission on Large Dams)
- IFAC (International Federation of Automatic Control)
- IIASA (International Institute for Applied Systems Analysis)
- ISIMM (The International Society for the Interaction of Mechanics and Mathematics)
- JMBC (JM Burgerscentrum)
- Louis de Broglie Foundation
- NASA (National Aeronautics and Space Administration)
- NSF (National Science Foundation, United States)
- RILEM (International Union of Laboratories and Experts in Construction Materials Systems and Structures)
- SEFI (Societé Européenne pour la Formation des Ingénieurs)
- Volkswagen Foundation
- WHO (World Health Organization)

CISM had a long standing cooperation with UNESCO. It started in 1973 by offering to participants in CISM courses from developing countries the possibility of attending preparatory courses in their countries. Then from 1978, following a decision by its General Conference, UNESCO has offered an annual funding to allow participation from developing countries to CISM courses. This activity has lasted until 2006. We mention also some important follow-ups of the cooperation between CISM and UNESCO. In the years 1983-1988 CISM was partner of the UNESCO-UNDP project "Applied Informatics in Developing Countries" that had as a main event the organization in 1983 at CISM of an eight-week College on Computer Sciences with thirty participants from developing countries. In the years 1991-2001 CISM was partner of the UNESCO project "Applied Mathematics, and Informatics in Developing Countries" that had as a main event the organization in 1991 at CISM of an eight-week College on Computer Sciences with forty participants from developing countries. In the years 2001-2006 CISM was partner of the UNESCO project "Education in the Basic Sciences for Informatics". Overall these projects involved a contribution of 530,000 USD. Besides the activities organized at CISM, schools were organized by CISM in the following countries: Algeria, Argentina, Chile, Cuba, Egypt, Jordan, Lebanon, Morocco, Nigeria, Peru, Syria, Tunisia and Yemen.

Between 1998-2001 CISM participated in a three-year project co-financed by the European Commission as part of the "EU-India Economic Cross-Cultural Programme". This was aimed at establishing a network for the development of joint project and research initiatives in the Mechanical Sciences, Computer Science, Environmental Science and Hydrology.

The courses, five each year, were held in Udine and Hyderabad and were organized in conjunction with the B.M. Birla Science Centre in Hyderabad, ÖFPZ Arsenal Ges.m.b.H. in Vienna, and The Indological Society "Luigi Pio Tessitori" of Udine.

In the period 2005-2007, the EUA4X (European Atelier for Engineering and Computational Sciences) project, financed by European Union Marie Curie Conferences and Training Courses, has supported two CISM courses each year, offering advanced knowledge and European training environment for young researchers in various branches of mechanical sciences.

COURSES, SEMINARS, SYMPOSIA AND JOINT ACTIVITIES

As provided in its Statute, one of the main objectives of the Centre is to promote the exchange, dissemination and application of the most advanced knowledge in the field of mechanical and related multidisciplinary sciences. To this end, CISM organizes courses and advanced seminars which are open to researchers from all over the world. A certain number of participants from universities and research centers, who are not supported by their institutions, receive scholarships from CISM to cover admission fees and local expenses.

The courses held at the Centre are essentially advanced schools for top-level researchers and focus on specific problems and the means for their solution. They are intensive one week courses and as such demand concentrated effort. The number of hours dedicated to a single subject is roughly equivalent to a one-term university course.

The annual programme of courses is the result of broad international cooperation. In addition to the proposals made by members of CISM's Scientific Council, there are many others submitted by organizations and scientists throughout the world. The Committee of Rectors and the Secretary General have the delicate task of drawing up a shortlist of these proposals on the basis of the following criteria: high scientific level, balanced mix of subjects and equal international participation. This shortlist is then submitted to the Scientific Council which discusses and improves upon the programme until it is finally decided on by the Board of Directors.

Given the fact that the annual programme is open to proposals from many different and independent sources, it does not lend itself easily to the planning of long-term series of courses and events in specific sectors. And yet it is interesting to observe from the list of annual programmes, how international debate and cooperation in the Scientific Council have led to definite trends in courses and events in many significant sectors of modern research and engineering. Long-term planning has been possible in some areas however, and the series of Robot and Manipulators Symposia (ROMANSY), organized in cooperation with IFToMM, is one such example. These symposia, and the records of their proceedings, constitute a widely-recognized reference for basic problems in robotics. Other important examples include the Meetings on Unilateral Problems in Structural Analysis and the workshops on the Mathematical Theory of Dynamical Systems and Microphysics, under the sponsorship of the Louis de Broglie Foundation.

Between 1986 and 1989, in addition to the advanced courses offered, CISM also provided post-graduate courses in mechanical sciences to young researchers. The programme, which received the support of the Italian Ministry of Foreign Affairs, consisted of a semester of lectures on continuum mechanics, elasticity and a number of other topics, followed by a second semester in which participants were required to prepare a thesis. Following the successful presentation of the thesis before the Rectors' Committee, participants were awarded a diploma.

In Appendix A1, a complete list of the courses and seminars held in the period 1969-2019 is given. Due to their practical nature and orientation, a number of courses are listed as "Advanced Professional Training" (APT), as indicated in Appendix A1. Appendix A2 lists the courses for research and education sponsored by UNESCO and Appendix A3 lists "Other

Events", that is symposia, meetings, workshops organized by CISM, and "Meetings Hosted by CISM".

Appendix A4 lists all lecturers who conducted courses at CISM in the period 1969-2019, while Appendix A5 and Appendix A6 list countries of over 4,500 lecturers and 40,000 participants in these courses.

As already mentioned, following the devastating earthquake of Friuli in 1976, CISM organized a series of courses for the benefit of Italian engineers and researchers interested in specific topics such as structural engineering, geotechnics, environmental engineering, surveying and mapping. All these events were organized and promoted by the Department of Structural Engineering and Geotechnics (DESEG).

In 1995, in response to increased interest in these advanced level courses, a new section – Italian Advanced Professional Training (IAPT) – was established. In the last decade, the subjects of the Italian courses have been extended to broader fields. These include hydraulics, industrial design, structural design, biomechanics, dynamics survey and laser scanning, environmental design, seismic risk and innovation technology in electronics. In 2016 CISM has obtained recognition as a provider of CNI - National Council of Engineers to give continuous professional training for Engineers.

The courses in Italian are listed in Appendix A7.

The main lecture room

DEPARTMENTS AND RESEARCH

The aim of the departments is to prepare and to submit new proposals for courses to the Rectors' Committee and to initiate and conduct research in their special fields within independent projects. Departments have been established in the following areas: biomechanics (DBM), computation science (DCS), energy and environment (DEA), fluid mechanics (DFM), solid mechanics (DSM), structural engineering and geotechnics (DESEG). In recent years DEA and DFM have been particularly active.

The mission of the DEA, led by Gianni Comini, is threefold: to advance the understanding of energy and environmental issues, to provide educational opportunities in energy and environmental fields and to ensure unbiased information on key energy and environmental issues. Furthermore, the Department provides advice to industries and local authorities on energy and environmental issues.

In the framework of knowledge dissemination, the Department has organized many conferences and public presentations, has produced new editions of highly successful textbooks on heat transfer, thermodynamics and energy, and has published online two e-books and several memories concerning topical energy and environmental issues and the physical foundations of energy.

Advice to industries has led to a long-standing cooperation with Amga Calore e Impianti (now Hera), the regional Gas and Energy Company, and to a two-year research contract with Electrolux concerning the development of a new household tumble dryer.

In the framework of the cooperation with the Municipality of Udine the Department has realized, and is still maintaining, a very popular Portale dell'Energia (Energy Portal) whose aim is to provide links to the web sites of the most interesting Italian projects concerning energy and environment education.

Between 2011 and 2015, the DFM, led by Alfredo Soldati and Cristian Marchioli, has been responsible for the scientific coordination of the COST Action FP1500 "Fibre suspension flow modelling – a key for innovation and competitiveness in the pulp and paper industry", aimed at improving current manufacturing processes and reducing energy consumption associated with pulp and paper making. Further between 2013 and 2015 DFM coordinated the project "Sviluppo di filtri catalitici e anti-particolato ad alta efficienza per una sostenibile mobilità compatibile con Euro 6" (Design of particulate and pollutant emission control devices). The project was funded by the Regional Authority Regione FVG, and was aimed at elucidating the physical and chemical processes that are relevant for the design of innovative high-performance abatement systems (particulate and catalytic filters), capable to cope with the challenging limitations imposed by new European standards for emission control (Euro 6). Partners of the project were the University of Udine (CIFI and DCFA) and three private companies (Arco Solution srl, QID srl and Palazzetti spa), which cooperated synergistically in the design, production and testing of new prototype wall filters. DFM carried out the scientific and dissemination activities of the project.

Moreover, following a long period in which it was not possible to implement any significant research work due to lack of funds, CISM has resumed its activities launching new research projects in collaboration with a number of national universities (University of Udine, University of Padua, Polytechnic of Milan), and European research institutes. This development has been made possible by the Centre's direct involvement in important European Union research projects to which CISM, thanks to its extensive national and international network of experts and the cooperation of its researchers, has been able to make a significant contribution.

Since 2000 CISM has participated in the following European research projects:
– 2000–2004, within the V Frame Program EU-IST, MACSI-net, "Mathematics, Computing and Simulation for Industry";
– 2001–2004, within the V Frame Program EU-Euratom, MAECENAS, "Modelling of Ageing in Concrete Nuclear Power Plant Structures";
– 2002–2005, within the V Frame Program EU-Growth, IALAD, "Integrity Assessment of Large concrete Dams";
– 2002–2006, within the V Frame Program EU-Growth, UPTUN, "Cost-effective, Sustainable and Innovative up grading Methods for Fire Safety in Existing Tunnels";
– 2004–2008, within the VI Frame Program EU-IST, KMM-NoE, "Knowledge-based Multicomponent Materials for durable and safe performance";
– 2006–2009, within the VI Frame Program EU-STREP, RAMWASS, "Integrated decision support system for Risk Assessment and Management of the Watersediment-Soil System at river basin scale in fluvial ecosystems".

CISM-Lab, CISM's spin-off, has been partner in the following projects
– 2007-2013, within the FESR Programme of Friuli Venezia Giulia, the project "Automatic Hydro Fire Shock" of which the leading partner was GSA group.
– 2012-2015, within the VII Frame Program NMP-2011-CSA-5, INNVIN "Innovative Material Solutions for Transport, Energy and Biomedical Sectors by Strenghthening Integration and Enhancing Research Dynamics of KMM-Vin".
– 2017 – 2020, within the H2020 Marie Sklodowska-Curie Actions (MSCA) Research and Innovation Staff Exchange (RISE): BESTOFRAC "Environmentally best practices and optimisation in hydraulic fracturing for shale gas/oil development".

Great attention was also devoted to the structural and fire safety of CISM, housed in a historical setting in an earthquake prone area. Between 2007 and 2012, through the funds allocated by a Regional law, the project on "Innovative monitoring and data acquisition techniques for the structural safety of strategic and monumental buildings in seismic area" was carried out. Leading partner was Virtualgeo S.r.l.. In this instance, a survey through laser scanning techniques was made. Successively the seismic behaviour of the structure has been tested. In 2017 CISM obtained the permission, as far as fire is concerned, to continue the activities. The seismic vulnerability of the Palace has been evaluated (experimental evaluation and modelling): the Palace is deemed safe.

PUBLISHING ACTIVITIES

Since its beginning, the Centre has devoted great effort to ensure that the texts of its courses and lectures reach a wide audience. The lecture notes which are distributed to the participants during the courses, are the source from which the lecturers subsequently prepare their final manuscripts for publication. Since its foundation, the Centre has established a cooperation with Springer Verlag Publishing Company, Vienna, for the worldwide distribution of the lecture notes. Until 2015 the publishing took place at the Centre's publishing premises. Since 2016 printing is taken care by Springer. To date, 590 books have been published, constituting an important collection of high-level scientific works which serve to supply the international scientific community with up-to-date information on some of the most recent scientific developments in the fields of mechanics, and related subjects.

Except for a few instances, the texts are in English. For a complete list of CISM publications, see Appendix A8. The historical texts have been reproduced by Springer. The Series Editors are the Rectors and the Secretary General. Presently the Scientific Editor is Paolo Serafini.

In 1973, CISM and Pergamon Press, Oxford, established a bimonthly international journal for up-to-the-minute communication entitled "Mechanics Research Communications". The journal, which accepts contributions on mechanics of fluids, solids, particles, continua, rigid bodies, mechanisms, systems and so forth, plays an important role in implementing CISM's activities. The acting Secretary General is regional editor for the journal.

LIBRARY

As stated in Article 1 of its Statute, CISM undertakes to promote research, set up research laboratories and libraries. To this end, it has constantly endeavoured to acquire suitable facilities to host its visiting scholars, who come from all over the world to engage in productive research in cooperation with CISM's own researchers.

The CISM library, enriched by the kind donation of Professor William Prager's private library, holds collections (some dating back to the early 1900s) of important scientific journals and books on mechanical sciences, mathematics, informatics and system theory. The book catalogue appears within the University of Udine Library on-line system, providing the scientific community with easy access to information regarding its collections. The library is open to the public on request.

THE LOCATION

Udine was chosen for the location of the Centre after examining several other possibilities. The decision was reached on the basis of two related factors. Firstly, CISM's location had to satisfy certain basic conditions: it had to be centrally situated in Europe, easily accessible by plane, train and car, and offer a pleasant environment. Secondly, the Centre had to be in a city that was not too large, was not frequented by large crowds of tourists, and yet had good historical and cultural traditions. Udine possesses all of these characteristics and offers pleasant, quiet and historically interesting surroundings. It is important to stress however, that Udine would not have been chosen without the intelligent foresight and vision of local and administrative authorities who readily understood the importance of hosting an international scientific institution.

Mention must be made of the Centre's premises, the eighteenth-century Palazzo del Torso, which goes back to the fifteenth-century, and which has provided CISM with a charming, elegant and practical working environment for the past 50 years and never fails to impress its visiting professors, researchers and public. In 1990, a second lecture room, with over 70 seats, was opened on the ground floor. Since April 1997, a guesthouse, situated next door to Palazzo del Torso, has provided lecturers and visitors with conveniently located accommodation during their stay in Udine. The use of this facility has also been made available to the University of Udine. Recently, the seismic vulnerability of the Palace has been evaluated (experimental evaluation and modelling): the Palace is deemed safe.

The internal courtyard

THE FORMER SECRETARIES GENERAL

Luigi Sobrero
Turin 1909 - Trieste 1979
Secretary General, 1968-1977

Luigi Sobrero graduated in Engineering from Rome University in 1931 and in Physics and Mathematics in 1933. In 1933 he became assistant professor in Rational Mechanics and in 1935/36 lecturer in Mathematical Physics, a subject previously taught by Enrico Fermi at the same University.

In the years 1939-42 he was lecturer at the University of Rio de Janeiro (Theoretical Physics and Mathematical Physics). In the years 1943-46 he taught at the University of Cagliari and in the same year he became Professor and the Chair of Rational Mechanics.

Two years later he moved to Trieste where, once again, he was the Chair of Rational Mechanics. In 1951 he established the Institute of Mechanics, of which he became Director, remaining in the role until his death.

Luigi Sobrero showed an unusual versatility and ingenuity. His scientific papers concern mathematics, electronics, the theory of elasticity, mechanics of machines and experimental mechanics. An expert in the theory of thin shells, he applied his knowledge to civil engineering, obtaining important results.

He was a foreign member of the Spanish Academy of Sciences and foreign member of the Polish Association of Theoretical and Applied Mechanics.

His most important work during his intellectually rich life was with CISM, to which he dedicated so much of his energies and efforts. It was his vision and determination which led to the foundation of the Centre and his enthusiasm which accompanied its early development.

Giovanni Bianchi

Como 1924 - Milan 2003
Secretary General, 1977-2000
Director, 2000-2003

Giovanni Bianchi graduated in Mechanical Engineering from the Politecnico of Milano in 1950 and was awarded a master degree from the Cornell University in 1953. He started his research and university career at the Politecnico of Milano where he was to become full professor of Applied Mechanics in 1979. He later became Professor of Mechanics Applied to Machines. He retired in 1994 and was appointed Professor Emeritus.

Giovanni Bianchi was founding member of IFToMM, the International Federation for the Promotion of Mechanism and Machine Science, and served as President from 1984 to 1991. He established the biennial CISM-IFToMM Symposia on Robotics (ROMANSY) and from 1973 was co-chair of the organizing committee. He was also co-editor of the many publications arising from these symposia. He was the General Secretary of the Italian Association of Theoretical and Applied Mechanics (AIMETA) and President from 1982 to 1986. In addition, he was the editor of the Association's Journal "Meccanica" from its launch in 1966 until 1982. He was the Italian representative of the International Union for Theoretical and Applied Mechanics (IUTAM) later becoming the representative for CISM. He carried out research in various sectors of mechanics applied to machines, in particular obtaining important results in the field of the propagation of shock waves.

Giovanni Bianchi's fruitful cooperation with CISM began in 1968 during preliminary meetings to discuss the foundation of CISM. During his long service, he was responsible for coordinating the Centre's activities and implementing the deliberations of the governing bodies, a role he performed with diligence and efficiency. He successfully promoted cooperation with the local community and with the University of Udine. Giovanni Bianchi will be remembered, especially in the scientific community, for his direct yet modest manner and for the measured approach so characteristic of all his doings.

THE FORMER VICE-SECRETARIES GENERAL

Angelo Marzollo
Venice 1937
Vice-Secretary General 1974-2010

Angelo Marzollo graduated summa cum laude in Physics at the University of Padua in 1963 and started his University career at the University of Trieste where he was to become Full Professor of Control and System Theory in 1975. He later became Full Professor of Operations Research at the University of Udine in 1979, where he acted as first Dean of the Faculty of Sciences and first Director of the Institute of Mathematics and Computer Science. From 1982 to 1984 he was appointed Professor of Theoretical Control Theory by the University of Paris 7-Jussieu and Director of Research by the Laboratoire d'Automatique de l'École des Mines de Paris. In 1984 he became staff member of UNESCO with the responsibility of its mathematics programme worldwide. From 1997 to 2007 he resumed his chair at the University of Udine and the direct local organisation of CISM's actvities, including the organisation of lectures by Italian experts on relations between science and society.

His cooperation with CISM started even before the foundation of the Centre, since he was the main help of Luigi Sobrero in preparing the necessary practical steps, including the formulation and approval of CISM's Statute and the relations with various international and local institutions.

As Vice-Secretary General of CISM he assisted three Secretaries General. Beside achieving a longstanding partnership with Unesco to grant support to participants from developing countries his main contribution was the realization of the three large scale projects, "Applied Informatics in Developing Countries", "Applied Mathematics, and Informatics in Developing Countries" and "Education in the Basic Sciences for Informatics", mentioned elsewhere in this booklet.

Alfredo Soldati
Livorno 1963
Vice-Secretary General 2011-2017

Alfredo Soldati graduated (MSc) in Nuclear Engineering at the University of Pisa, where he later obtained his PhD in Chemical Engineering. Assistant at the University of California at Santa Barbara, in 1993 he moved to University of Udine as assistant, associate and full professor of Fluid mechanics (2007). Since 2016 he is professor of fluid mechanics at the Institute of Fluid Mechanics and Heat Transfer at the Technische Universität Wien (Austria), with a minor appointment with the University of Udine. He was also guest professor at Ecole Polytechnique Federale de Lausanne (CH), at Institute National Polytechnique, Toulouse, (FR) and at Scuola Superiore Sant'Anna, Pisa (IT).

He is Fellow of the American Physical Society, recipient of the ASME Knapp award and of the ASME Lewis F. Moody award and recipient of the 2018 Panetti-Ferrari prize from Accademia delle Scienze di Torino. Dr. Soldati is Editor in Chief of International Journal of Multiphase Flow and, since 2019, Rector at the International Center for Mechanical Sciences (CISM).

His cooperation with CISM started at the time when he moved to Udine, and he was the founder of the CISM Department of Fluid Mechanics.

In his service of Vice-Secretary General of CISM, he promoted actions aimed at expanding the Fluid Mechanics area at CISM and at promoting collaborations between CISM and University of Udine, especially in the area of doctoral programs. Specific actions taken have involved CISM in European Cost actions, and in research programs funded by Regione Friuli Venezia Giulia. CISM agreement with the Italian Association of Theoretical and Applied Mechanics (AIMETA), which is now in the CISM constellation, was also planned and finalized. CISM relationships with the Netherland research system via specific agreement with the J.M. Burgerscentrum (JMBC) for joint actions and joint courses was also finalized. Composition of the Scientific Council with inclusion of new co-opted members from Slovenia, England and Belgium was also important.

THE RESIDENT RECTORS

Wacław Olszak
Karwina, Poland 1902 - Udine 1980
Resident Rector, 1968-1980

Wacław Olszak graduated from the Technical University of Vienna in Civil Engineering. After working as a consultant engineer and finishing his doctorial studies in 1946, he took the chair of Strength of Materials at the Mining Academy of Cracow, and in 1952 at the Technical University of Warsaw. He played an important role in the organization and direction of the Institute of Fundamental Technological Research Institute in Warsaw and in 1952 became head of the Department of Continuum Mechanics.

Wacław Olszak was intensively involved in the life of the international scientific community. He played a prominent role in the creation of the International Union of Laboratories and Experts in Construction Materials Systems and Structures (RILEM), had a long affiliation with the Bureau of the International Union for Theoretical and Applied Mechanics (IUTAM) and was associated with the International Association for Shell and Spatial Structures (IASS). Wacław Olszak was an elected member of several academies including the Polish and French Academy of Sciences. He received a large number of 'honoris causa' degrees awarded by various universities throughout the world.

Wacław Olszak's scientific contributions were related to various theoretical and engineering oriented disciplines: theory of elasticity and plasticity, analysis of inhomogeneous and orthotropic solids and structures, limit analysis of structures, mechanics of granular solids, theory of concrete and pre-stressed concrete structures. He published several monographs and a great number of research papers, articles and notes.

During his rectorship, Wacław Olszak made a lively and successful scientific contribution to the Centre. He actively sought close cooperation with a number of international institutions and did much to help CISM gain the solid reputation it still enjoys today. He was an extraordinarily cultured and educated man and his contribution to the creation and development of CISM was fundamental to its success.

Antoni Sawczuk

Komarno, Poland 1927 - Grenoble 1984
Resident Rector, 1982 - 1984

Antoni Sawczuk obtained his university degree in civil engineering in 1951 and received his doctorate in 1958 from the Technical University of Warsaw. After completing his postdoctoral studies at the Illinois Institute of Technology, Chicago, and at the Brown University, Providence, he started his research work at the Institute of Fundamental Technological Research in Warsaw. In 1967 he was appointed professor and in 1969 became Chair of the Department of Continuous Media and Theory of Structures at the Institute.

Antoni Sawczuk also held visiting professorships at the Illinois Institute of Technology, University of Grenoble, Nagoya University, University of Poitiers and University of Aix- Marseille. In 1969 he was elected associate member of the Polish Academy of Sciences and full member in 1983. He was granted an 'honoris causa' degree from the University of Grenoble in 1979 and received a number of awards from the Polish Academy of Sciences, including the National Prize in Sciences in 1968. Antoni Sawczuk was member of the administrative boards of IUTAM, RILEM, CEB and IASS and served on a number of editorial committees of scientific journals. He was organizer of numerous conferences and symposia, in particular the Symposium "Plasticity Today" dedicated to the memory of Professor Wacław Olszak.

Antoni Sawczuk's research work was concentrated on the theory of plasticity and its applications: limit analysis and plastic design of plates and shells, cyclic and dynamic loading and post-yield behavior of elasto-plastic structures, anisotropic hardening of materials and continuum damage mechanics. He was author or co-author of a great number of technical papers, several books and editor of volumes of proceedings of conferences and symposia.

Due to his untimely death, Antoni Sawczuk served as CISM's Resident Rector for just two years. However, even in this short space of time, he succeeded in making an important contribution to the development of the Centre.

Sandor Kaliszky
Diósgyör, Hungary, 1927- Budapest 2016
Resident Rector, 1986-2001

Sandor Kaliszky graduated from the Technical University of Budapest in Civil Engineering in 1950. He received a degree from the Academy equivalent to a PhD degree in 1961 and the Doctor of Technical Sciences (DSc) degree in 1967. He was elected corresponding member in 1990 and member in 1995 of the Hungarian Academy of Sciences. In the years 1964-1965 he performed postdoctoral studies at the University of Southampton, Great Britain. Sandor Kaliszky started his university and research career in 1950 at the Department of Mechanics of the Technical University of Budapest. In 1969 he became professor and in 1971 head of the Department until 1993. In 1997 he was appointed professor emeritus.

Sandor Kaliszky was visiting professor at the Monash University, Melbourne in 1973 and at the University of Wisconsin, Milwaukee in 1980-1981 and 1984-1985. He was member of the governing boards of IUTAM, GAMM and EUROMECH. Besides these institutions, he was also member of IACM and IABSE. He received the Copernicus Award from the Polish Academy of Sciences in 1984 and several other national and international prizes and medals from universities and academies.

Sandor Kaliszky's research work concerned plasticity and its engineering applications: limit, shakedown and dynamic analysis and optimal design of plates, shells and other structures. He also studied and solved several elastic structural problems. He published several books and a large number of scientific papers and presented lectures in different regions of the world. Besides contributing to the successful direction and development of the Centre's scientific work, Sandor Kaliszky was active in creating new international relations. During his period as Rector, several European universities and academic institutions became associate members of CISM and signed cooperative agreements.

Manuel G. Velarde

Almeria, Spain, 1941
Resident Rector, 2002-2004

Manuel G. Velarde graduated in physics from Universidad Complutense (UCM), Madrid in 1963, got the Ph.D. from the same university in 1968 and from the Université Libre de Bruxelles (ULB) in 1970. Currently he is Professor of Physics at Universidad Complutense of Madrid and head of Fluid Dynamics Department at Instituto Pluridisciplinar.

Manuel G. Velarde has published a large number of research papers, books, contributions to books or to conference proceedings, and numerous articles for lay audience. His research output covers a wide spectrum of phenomena, problems and disciplines. It includes kinetic theory, statistical mechanics, thermodynamics, fluid physics, geophysics, optics and lasers, ferromagnetism, acoustics, elasticity, wave theory, reaction-diffusion science, biophysics, active lattice dynamics, and neurodynamics, all phenomena and methodologies treated from the unifying perspective of nonlinear dynamics.

In 1994, Manuel G. Velarde was awarded the Honorary Doctorate from the Université de Provence (Aix-Marseille I) where he had been visiting professor on numerous occasions, often for long periods. In 1996, he received the Rammal Medal of the Societé Francaise de Physique and the Fondation de l'Ecole Normal Supérieure, and in 2003 was awarded the Dupont Science Prize. He has been a member of the Academia Europaea since 1993 and member of its council since 2002.

Manuel G. Velarde has served the international scientific community and the profession as member of several committees and editorial boards (IUPAP, IUTAM, EPS, ESA, ELGRA/Vice-President and President, NATO, EU). He was a research scientist or visiting professor at several universities and institutions (CEN- Saclay, Los Alamos National Laboratory, Paris, Grenoble, Marseille/I, II, III, Trondheim, Cambridge, Berkeley, Stanford, Beijing, Wuhan).

At CISM Manuel G. Velarde was very active in developing cooperation with local industries, with the University of Udine and with research centres in the Trieste area. He also organized public lectures successfully raising the visibility and reputation of the Centre in the region.

The position of Resident Rector was abolished in 2005.

The monumental staircase

APPENDICES

APPENDIX A1

LIST OF COURSES

1969

Autumn Session

Vibration of continuous systems

Modern experimental methods

Optimization of large scale systems
and applications

Complementary courses and lectures
Free lectures

20 professors from 9 countries
42 participants from 8 countries

1970

Summer Session

Mechanics of micropolar media

Computational gasdynamics

Selected topics in automation
and information

Introductory courses

Free lectures

21 professors from 7 countries
63 participants from 8 countries

Autumn Session

Gyro-dynamics

Dynamics of satellites

Fluidics

Photoelasticity in theory and practice

Free lectures

27 professors from 10 countries
68 participants from 9 countries

1971

Summer Session

Thermodynamics in mechanics

Multi-phase flows

Selected topics in system theory (pattern
recognition, game theory, information theory,
systems with variable structure, dynamical
systems theory)

Free lectures

30 professors from 9 countries
81 participants from 15 countries

Autumn Session

Random phenomena in mechanics

Viscoplasticity

Biomechanics of circulation and respiration

Selected experimental methods in mechanics

Selected topics in space technology, held
in Dubrovnik

Free lectures

36 professors from 10 countries
80 participants from 15 countries

1972

Fourier Session

Thermoelasticity

The finite element method

Fluid-dynamic aspects of pollution

Fluidics

Selected topics in system theory (periodic
optimization, coding theory and algorithms,

statistical information processing, automata, structural theory of dynamical systems)

Free lectures

47 professors from 15 countries
244 participants from 15 countries

Cosserat Session

General theory of continuous media

Radiation gasdynamics

Non-equilibrium flows

Gyrodynamical applications to spacecraft

Theory of mechanisms

Free lectures

26 professors from 9 countries
46 participants from 8 countries

1973

Stokes Session

Fluid-dynamics of rotating machines

Rock mechanics

Experimental methods in mechanics

Stability of stochastic models

Discrete problems in continuum
and structural mechanics

Topics in system and information theory
(differential games, computational
optimization, artificial intelligence,
compression and transmission of data over
satellite links)

Free lectures

44 professors from 11 countries
145 participants from 17 countries

Copernicus Session

Dynamic astronomy and celestial mechanics

Rheology. Theory and applications

Linear vibration theory

Air cushion principle. Theory and applications

Transonic flow

Free lectures

18 professors from 11 countries
102 participants from 16 countries

1974

Rankine Session

Nonlinear vibrations

Rheological problems in soil mechanics.
Experiments, theories and applications

Integral transforms in solid mechanics.
Applications in engineering

Topics in system theory (multicriteria
decision making, coding and complexity)

Hydrodynamics of bays and coastal waters

Kinetic theory of gases

Free lectures

31 professors from 11 countries
145 participants from 24 countries

Saint-Venant Session

Postbuckling behaviour of structures

Structural optimization

Engineering plasticity. Civil engineering

Experimental methods in mechanics

Recent advances in computational
gasdynamics

Free lectures

30 professors from 11 countries
140 participants from 26 countries

1975

Levi-Civita Session

Propagation of elastic and inelastic waves

Thermodynamics and dynamics of drops
and bubbles

Free lectures

13 professors form 7 countries
89 participants from 17 countries

Prandtl Session

Engineering plasticity. Metal forming processes

Nonlinear dynamics of elastic bodies

Experimental methods in mechanics. Strain measurements and evaluation

New trends and open problems in information theory

Free lectures

23 professors from 9 countries
157 participants from 9 countries

1976

Eötvös Session

Noise generation and control in mechanical engineering

Random excitation of structures by earthquakes and atmospheric turbulence

Dynamics of large fluid masses

Information in large systems

Free lectures

16 professors from 11 countries
119 participants from 20 countries

Euler Session

Stability of elastic structures

Dynamic photoelasticity and photoplasticity

Recent advances in numerical fluid mechanics

Free lectures

11 professors from 7 countries
94 participants from 19 countries

1977

Hamilton Session

Applications of functional analysis to mechanics

On the foundations of fracture and crack propagation theory

The information theory approach to communications

Free lectures

17 professors from 8 countries
92 participants from 11 countries

Melan Session

New trends and specific applications of dynamic system theory

Electromagnetic interactions in elastic solids

Thermomechanics of magnetic fluids

Shakedown (adaptation) of elastic-plastic structures

Thin shells

Free lectures

35 professors from 16 countries
213 participants from 29 countries

1978

Newton Session

Fluid dynamics in microgravitational environment

Thermomechanics of solids
Algebraic coding. Theory and applications

Free lectures

29 professors from 10 countries
139 participants from 22 countries

Bernoulli Session

Biomechanics of motion

Selected advanced topics in experimental mechanics

Analytical problems in mechanics

Free lectures

28 professors from 8 countries
206 participants from 24 countries

1979

Brinell Session

Mechanics of micropolar media

Multi-user communications

Modern problems in offshore engineering
Fluid loading in offshore structures

Computational complexity

Free lectures

29 professors from 8 countries
111 participants from 16 countries

Huber Session

Mathematical theory of dynamical systems
and microphysics

Elevated temperature design. Fundamentals
and applications

Asymptotic methods in mechanics

Dynamics of plastic structures

Free lectures

41 professors from 10 countries
234 participants from 33 countries

1980

Archimedes Session

Engineering and medical aspects of arterial
blood flow

Signal processing

Non-local theory of material media

Magneto-hydrodynamics

Lyapunov Session

Structural mechanics 2. Problems
in offshore engineering

Dynamics of rotors: vibration control
and system identification

Identification of vibrating structures

52 professors from 12 countries
355 participants from 32 countries

1981

Kirchhoff Session

Microgravity fluid dynamics. Foundations
and applications

Optimization of structures. Mathematical
foundation and applications

Continuum theory of the mechanics
of fibre-reinforced composites

Kelvin Session

Mathematical theory of dynamical systems
and microphysics

Soil mechanics and foundation engineering
in offshore technology

Dynamics of high-speed vehicles

Non-Newtonian fluid flow with applications
to technological problems

52 professors from 14 countries
221 participants from 40 countries

1982

Laplace Session

Secure digital communications

Rock fracture mechanics

Singular perturbations in systems
and control

Theoretical acoustics and numerical
techniques

The constitutive law in thermoplasticity

Timoshenko Session

Fracture, fatigue, corrosion in offshore engineering

Structural identification and parameter estimation

Low Reynolds number hydrodynamics

Structural identification and parameter estimation

73 lecturers from 13 countries
218 participants from 32 countries

1983

Taylor Session

Plasticity today. Current trends and results in plasticity

School on algorithm design for computer system design

Hydrodynamics of lakes

Von Karman Session

Third Seminar on dynamical systems and microphysics. System theory and mechanics

Reinforced concrete, safety and case histories in offshore engineering

Boundary element methods in engineering

Optical methods in mechanics:
1. Photoelasticity 2. Photoviscoelasticity of anisotropic media

Models for atmospheric flows

54 lecturers from 15 countries
231 participants from 38 countries

1984

Lagrange Session

Engineering aspects of solar energy conversion in low and medium temperature range

Application of tensor functions in solid mechanics

Optical Methods in Mechanics: 3. Static and dynamic photoelasticity and caustics: recent applications

Terzaghi Session

Mathematics of multiobjective optimization

Postgraduate course in computation theory

Methods of rock engineering

Two-phase flows: application in power machinery and equipment

48 lecturers from 12 countries
193 participants from 28 countries

1985

Volterra Session

Biomechanics of motion

Homogenization techniques for composite media

Algorithms and data structures for geometric computation

Love Session

Stochastic methods in structural mechanics

Gravity Waves

4th International seminar on "Mathematical theory of dynamical systems and microphysics - information, complexity and control in quantum physics"

General theory, computational concepts and applications of thin shell structures

Post-buckling behaviour of structures

Rotordynamics 2. Problems of turbomachinery

48 lecturers from 13 countries
222 participants from 31 countries

1986

Boltzmann Session

Kinetic theory and gas dynamics

Applications of system identification in engineering

Chaotic motions in nonlinear dynamic systems

Mathematical programming methods in structural plasticity

Wiener Session

Expert system design: methodologies and tools

Continuum damage mechanics: theory and applications

Stochastics in combinatorial optimization

Finite element and boundary element techniques from mathematical and engineering point of view

83 lecturers from 13 countries
426 participants from 36 countries

1987

The Gauss Session

Analysis and estimation of stochastic mechanical systems

Bone mechanics

Recent advances in computational nonlinear mechanics

The Von Mises Session

Non-smooth mechanics and applications
Time-frequency representation of signals and systems

Shakedown theory and applications

Operations research models in flexible manufacturing systems

74 lecturers from 13 countries
335 participants from 35 countries

1988

The Prager Session

Advances in teleoperations

Structural optimization under stability and vibration constraints

Postcritical behaviour and fracture of dissipative materials

Mining mechanics

Internal variables in thermodynamics and continuum mechanics

Machine vision

The Helmholtz Session

Crack dynamics in metallic materials
Aero- and hydroacoustics

46 lecturers from 12 countries
222 participants from 27 countries

1989

The Voigt Session

Geometries, codes and criptography

Shock wave phenomena: experimental and numerical studies

Applied viscoelasticity of polymers

Numerical methods in geomechanics including constitutive modelling

Mechanics of impact energy absorption

The Boussinesq Session

Nonlinear fracture mechanics

Nonlinear waves in real fluids

46 lecturers from 14 countries
238 participants from 33 countries

1990

The Poincaré Session

Modelling macroscopic phenomena at liquid boundaries

Reliability problems: general principles and applications in mechanics of solids and structures

Engineering applications of dynamics of chaos

Shape and layout optimization of structural systems

Linear prediction: theory and applications

The Stodola Session

Mechanics of robots - two crucial problems: gripping and manipulating, and flexible arms

Stability problems of steel structures

Progress in computational analysis of inelastic structures

Diagnostics of machinery

1st IUTAM International Summer School on "Waves in fluids"

82 lecturers from 19 countries
397 participants from 44 countries

1991

The Bunsen Session

Bifurcation and stability of dissipative systems
Algorithms and complexity

Nonlinear analysis of shells by finite elements

Rotating fluids in geophysical and industrial situations
Theory of flame and combustion modelling

The Maxwell Session

Evaluation of materials and structures by quantitative ultrasonics
Mechanics of non-Newtonian fluids

2nd IUTAM International Summer School on "Modelling of defect and fracture mechanics"

45 lecturers from 14 countries
280 participants from 29 countries

1992

The Coulomb Session

Mechatronics

Residual stresses in glass and their experimental determination

On the evaluation of global bearing capacities of the structures

Development of expert systems for structural mechanics and structural engineering

The Gibbs Session

Stochastic approach to fatigue: experiments, modelling, reliability estimation

Wind excited vibrations of structures
Non-equilibrium thermodynamics with application to solids

Numerical methods in theoretical and applied fracture mechanics

3rd IUTAM International Summer School on "Continuum mechanics in environmental sciences and geophysics"

58 lecturers from 22 countries
356 participants from 30 countries

1993

The Olszak Session

Stability and wave propagation in fluids and solids

Influence of the fluid structure interaction on the dynamic behaviour of rotating

machinery

Passive and active structural control in civil engineering

Modelling and analysis of reinforced concrete structures for dynamic loading

Computerized symbolic manipulation in mechanics

The Signorini Session

Nonlinear stability of structures: theory and computational techniques

Advances in database theory, implementations and applications

Nonlinear waves in solids

Waves and instabilities in plasmas

Shape memory alloys

Time-dependent behaviour of geomaterials

4th IUTAM International Summer School on "Engineering mechanics of fibre polymers and composite structures"

69 lecturers from 22 countries
336 participants from 36 countries

1994

The Rayleigh Session

Eddy structure identification techniques for free turbulent flows

Summation theorems and their applications to the theory of structural stability

Biomechanical aspects of artificial joints

Kinematics and dynamics of multi-body mechanical systems •

Mechanics of musical instruments

The Sawczuk Session

Crack and contact problems for viscoelastic bodies

Polymer mechanics: conditions of solidification and ageing

Modern issues in non-saturated soils

Steel plated structures

Protection of the architectural heritage against earthquakes

101 lecturers from 21 countries
455 participants from 34 countries

1995

The Woltring Session

New design concepts for high speed air transport

Bone cell and tissue mechanics

The Castigliano Session

Mathematical modelling for arch dam design and safety evaluation

Mechanics of solids with phase changes

Control of flow instabilities and unsteady flows

The flow of particles in suspension

46 lecturers from 11 countries
255 participants from 32 countries

1996

The Griffith Session

Discrete structural optimization

Topology optimization in structural mechanics

Modelling and simulation of human and walking robot locomotion

Large plastic deformation of crystalline aggregates

The Betti Session

Continuum micromechanics

School and workshop on approximate solution of hard combinatorial problems

Algorithmic foundations of geographic information systems

Scaling laws and fractality in continuum mechanics. A survey of the methods based

1990

The Poincaré Session

Modelling macroscopic phenomena at liquid boundaries

Reliability problems: general principles and applications in mechanics of solids and structures

Engineering applications of dynamics of chaos

Shape and layout optimization of structural systems

Linear prediction: theory and applications

The Stodola Session

Mechanics of robots - two crucial problems: gripping and manipulating, and flexible arms

Stability problems of steel structures

Progress in computational analysis of inelastic structures

Diagnostics of machinery

1st IUTAM International Summer School on "Waves in fluids"

82 lecturers from 19 countries
397 participants from 44 countries

1991

The Bunsen Session

Bifurcation and stability of dissipative systems
Algorithms and complexity

Nonlinear analysis of shells by finite elements

Rotating fluids in geophysical and industrial situations
Theory of flame and combustion modelling

The Maxwell Session

Evaluation of materials and structures by quantitative ultrasonics

Mechanics of non-Newtonian fluids

2nd IUTAM International Summer School on "Modelling of defect and fracture mechanics"

45 lecturers from 14 countries
280 participants from 29 countries

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Residual stresses in glass and their experimental determination

On the evaluation of global bearing capacities of the structures

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The Gibbs Session

Stochastic approach to fatigue: experiments, modelling, reliability estimation

Wind excited vibrations of structures
Non-equilibrium thermodynamics with application to solids

Numerical methods in theoretical and applied fracture mechanics

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356 participants from 30 countries

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Influence of the fluid structure interaction on the dynamic behaviour of rotating

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Passive and active structural control in civil engineering

Modelling and analysis of reinforced concrete structures for dynamic loading

Computerized symbolic manipulation in mechanics

The Signorini Session

Nonlinear stability of structures: theory and computational techniques

Advances in database theory, implementations and applications

Nonlinear waves in solids

Waves and instabilities in plasmas

Shape memory alloys

Time-dependent behaviour of geomaterials

4th IUTAM International Summer School on "Engineering mechanics of fibre polymers and composite structures"

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336 participants from 36 countries

1994

The Rayleigh Session

Eddy structure identification techniques for free turbulent flows

Summation theorems and their applications to the theory of structural stability

Biomechanical aspects of artificial joints

Kinematics and dynamics of multi-body mechanical systems •

Mechanics of musical instruments

The Sawczuk Session

Crack and contact problems for viscoelastic bodies

Polymer mechanics: conditions of solidification and ageing

Modern issues in non-saturated soils

Steel plated structures

Protection of the architectural heritage against earthquakes

101 lecturers from 21 countries
455 participants from 34 countries

1995

The Woltring Session

New design concepts for high speed air transport

Bone cell and tissue mechanics

The Castigliano Session

Mathematical modelling for arch dam design and safety evaluation

Mechanics of solids with phase changes

Control of flow instabilities and unsteady flows

The flow of particles in suspension

46 lecturers from 11 countries
255 participants from 32 countries

1996

The Griffith Session

Discrete structural optimization

Topology optimization in structural mechanics

Modelling and simulation of human and walking robot locomotion

Large plastic deformation of crystalline aggregates

The Betti Session

Continuum micromechanics

School and workshop on approximate solution of hard combinatorial problems

Algorithmic foundations of geographic information systems

Scaling laws and fractality in continuum mechanics. A survey of the methods based

on renormalization group and fractional calculus

Coupled instabilities in metal structures: theoretical and design aspects

7th IUTAM International Summer School on "Electrohydrodynamics"

67 lecturers from 21 countries
359 participants from 43 countries

1997

The Hertz Session

Modern methods of analytical mechanics and their applications

Uncertainty in engineering: probability, fuzzyness and anti-optimization

Lifetime assessment at high temperatures

Recent advances in boundary layer theory

Contact problems: theory, methods, applications

The Somigliana Session

Free surface flow

High-cycle metal fatigue in the context of mechanical design

Behaviour of granular materials

Localization and fracture phenomena in inelastic solids

Fracture mechanics in structural concrete

Modern optical flow measurement

74 lecturers from 16 countries
342 participants from 36 countries

1998

The Cauchy Session

Mechanics and design of tubular structures •
Environmental fluid mechanics

Identification of media and structures by inversion of mechanical wave propagation

Kinetic and continuum thermodynamical approaches to granular and porous media

The Reynolds Session

Modelling of creep and damage processes in materials and structures

Fluid-structure interactions in acoustics

Wind-resistant design of structures: codified and advanced methods

Multibody dynamics with unilateral contacts

Modern optical methods in experimental solid mechanics

Neural networks in mechanics of structures and materials

9th IUTAM International Summer School on "Advanced turbulent flow computations"

66 lecturers from 15 countries
453 participants from 44 countries

1999

The Parkus Session

Damage mechanics: statistical aspects

Deployable structures

Fretting fatigue

Bone cell and tissue mechanics

The Koiter Session

Material instabilities in elastic and plastic solids

Turbulence modulation and control

Semirigidity in connections of structures steelworks: theory, analysis and design •

Adaptive finite elements in linear and nonlinear solid and structural mechanics

Rolling contact phenomena

Environmental geomechanics

Seismic resistant steel structures: progress and challenge •

10th IUTAM International Summer School on "Liquid metal magnetohydrodynamics"

73 lecturers from 19 countries
435 participants from 42 countries

2000

The Oswatitsch Session

Emerging methods for treating multidisciplinary optimization problems

Topics in finite elasticity

Smart structures: theory and applications

Advanced numerical applications and plasticity in geomechanics

Interfacial phenomena, the Marangoni effect, instability, waves and convective flows

Drop-surface interactions

The Panagiotopoulos Session

Crashworthiness: energy management and occupant protection

Configurational mechanics of materials

Mechanics of random and multiscale microstructures

Refurbishment of buildings and bridges •
Inelastic behaviour of structures under variable repeated loads

11th IUTAM International Summer School on "Friction and instabilities"

73 lecturers from 20 countries
379 participants from 39 countries

2001

The Kröner Session

Modelling, manipulation and control of transverse jets

Recent advances in boundary element methods and their solid mechanics applications

Selected topics in boundary integral formulations for solids and fluids

Principles of nonparametric learning

Stability of structures: modern problems and unconventional solutions

The Crighton Session

Biomechanics of soft tissue

Theories of turbulence

Formalware engineering: formal methods for engineering software

Aluminium structural design •

57 lecturers from 20 countries
369 participants from 33 countries

2002

The Morecki Session

Advanced dynamics and control of structures and machines

Light gauge metal structures-Recent advances •

Deformation in the earth's continental crust

Theory, experiment and modelling

Cardiovascular fluid mechanics

Multiscale modeling in continuum mechanics and structured deformations

Modern trend in composite laminates mechanics

The Lighthill Session

Phase change with convection: modelling and validation

Modeling and control of two-phase flow phenomena

Computational Micromechanics of Materials Science

Mechanics and thermomechanics
of rubberlike solids

59 lecturers from 22 countries
338 participants from 38 countries

2003

The Onicescu Session

Moving discontinuities in crystalline solids

Effect of heat on concrete

Degradations and instabilities
in geomaterials

Chemo-mechanical couplings in porous
media - Geomechanics and biomechanics

Bone cell and tissue mechanics

Mechanics of solid polymers: the kinetic
of irreversible processes

The Palacios Session

Microfluidics: history, theory
and applications

Walking: biological and technological aspects

Dynamical systems, wave based
computation and neuro-inspired robots

Parameter identification of materials
and structures

Phenomenological and mathematical
modelling in structural instabilities

12th IUTAM International Summer
School on "Mechanics of Microstructured
Materials"

71 lecturers from 18 countries
379 participants from 39 countries

2004

The Bjerknes Session

Multiscale modelling of damage and
fracture processes in composite materials

Nonlinear dynamical systems in economics

Control of solids and structures:
mathematical modelling and engineering
applications

Microsystems mechanical design

Environmental stratified flows

Applied micromechanics of porous
materials

The D'Alembert Session

Surface waves in geomechanics: direct
and inverse modelling for soils and rocks

Modelling and experimentation in two-
phase flow

Nonlinear waves in fluids: recent advances
and modern applications

Nonlinear dynamics and chaos for high
volume and ultra precision metal cutting

Nonsmooth mechanics of solids

67 lecturers from 17 countries
375 participants from 39 countries

2005

The Bianchi Session

Mechanical Vibration: Where Do We Stand?

Analysis and Control of Mixing with
an Application to Micro and Macro Flow
Processes

Multiscale Modelling of Plasticity and
Fracture by means of Dislocation Mechanics

Multiscale Modelling and Design of New
Materials

Waves in Geophysics

Thin Films of Soft Matter

Atmospheric Convection: Research
and Operational Forecasting Aspects

Fluid Dynamics of Cavitation
and Cavitating Turbopumps

The Drucker Session

Boiling Heat Transfer and Boiling Equipment

Mixed Finite Element Technologies

Flow and Transport in Microchannels:
Fundamental Theoretical Aspects,
Experimental Methods, Application

Dynamic Methods for Damage Detection
in Structures

13rd IUTAM International Summer School
on "Dispersion of Particles in Turbulent
Flows"

71 lecturers from 20 countries
515 participants from 37 countries

2006

The Stüwe Session

Classical and Advanced Theories of Thin
Structures: Mechanical and Mathematical
Aspects

Advances in Modeling and Control
of Flexible Mechanical Systems

Computational Aspects of Structural
Acoustics and Vibration

Computational Models for Turbulent
Multiphase Reacting Flows

Advanced Earthquake Engineering Analysis

Probabilistic Methods in Geotechnical
Engineering

Mechanics of Playing and Making Musical
Instruments

The Fiszdon Session

Waves in Nonlinear Pre-Stressed Materials

Wind Effects on Buildings and Design
of Wind-Sensitive Structures •

Computational Contact Mechanics

Dynamics of the Flow Past a Bluff-body

Pattern Formation at Interfaces with
Applications to Biomedical, Materials

and Physico-Chemical Processes

Dynamical Analysis of Vehicle Systems -
Theoretical Foundations and Advanced
Applications

14th IUTAM International Summer School
on "Biomechanical Modeling at the
Molecular, Cellular and Tissue Levels"

87 lecturers from 20 countries
539 participants from 43 countries

2007

The Brousse Session

Vortices and Turbulence at Very Low Tem-
peratures

Generalised Continua and Dislocation
Theory. Theoretical Concepts,
Computational Methods and Experimental
Verification

Advances in Constitutive Relations Applied
in Computer Codes

The Zyczkowski Session

Sport Aerodynamics

Simulation Techniques for Applied Dynmics

Poly-, Quasi- and Rank-One Convexity in
Applied Mechanics

Semi-active Vibration Suppression - The Best
from Active and Passive Technologies

Advances of Soft Computing in Engineering

15th IUTAM International Summer School
on "Bone Cells and Tissue Mechanics"

51 lecturers from 15 countries
356 participants from 34 countries

2008

The Krajcinovic Session

Mechanical Size-Effects of Materials:
Processing, Characterization and Modeling

Modern Engineering and Mathematical Concepts in Computational Shell Mechanics

Brittle Fracture and Plastic Slip: from the Atomistic to the Engineering Scale

Instabilities of Flows with and without Heat Transfer and Chemical Reactions

Advanced Nonlinear Strategies for Vibration Mitigation and System Identification

Advanced Design of Mechanical Systems: from Analysis to Optimization •

Damage Mechanics and Micromechanics of Localized Fracture Phenomena in Inelastic Solids

Nonlinear Fracture Mechanics Models

Impact Engineering of Composite Structures

The Batchelor Session

Transport Phenomena in Micro- and Nanofluidics

Computational and Experimental Mechanics of Advanced Materials

Reduced Order Modelling for Flow Control

New Trends in Vibration Based Structural Health Monitoring

New Trends in Thin Structures: Formulation, Optimization and Coupled Problems

16th IUTAM International Summer School on "Advanced Integral Equation Methods in Computational Mechanics"

87 lecturers from 23 countries
392 participants from 35 countries

2009

The Broglio Session

Numerical Modeling of Concrete Cracking

Dynamical Inverse Problems: Theory and Application

Mechanical Behaviour of Soils under Environmentally Induced Cyclic Loads

Multiphase Microfluidics - The Diffuse Interface Model

Electrokinetics and Electrohydrodynamics in Microsystems

Mechanics and Electrodynamics of Magneto- and Electro-Elastic Materials

The Sobrero Session

Asymptotic Methods in Fluid Mechanics: Survey and Recent Advances

Cellular and Porous Materials in Structures and Processes

Environmental Wind Engineering and Wind Energy Structures •

55 lecturers from 19 countries
251 participants from 33 countries

2010

The Lippmann Session

Ultrasound Standing Wave Action on Suspensions and Biosuspensions in Micro- and Macro Fluidic Devices

Nano- and Micro-Mechanics of Living Cell Adhesion

Wave Propagation in Linear and Nonlinear Periodic Media: Analysis and Applications

17th IUTAM Summer School on: Modelling and Simulation of Multiscale Continuum Systems

Variational Models and Methods in Solid and Fluid Mechanics

Bone Cell and Tissue Mechanics

Monitoring, Control and Identification of Bridges by Dynamic Methods

The Zienkiewicz Session

Computational Fluid-Structure Interaction

Exploiting Nonlinear Behaviour in Structural Dynamics

55 lecturers from 11 countries
364 participants from 32 countries

2011

The Germain Session

Noise Sources in Turbulent Shear Flows

Nondeterministic Mechanics

Plasticity and Beyond: Microstructures, Crystal-Plasticity and Phase Transitions

Experimental and Theoretical Multiscale Analysis of Materials and Structures

Mechanics of Fine Cohesive Powders

Advanced and Bio-Inspired Nanomechanics

Analysis of Creep and Shrinkage Effects in Concrete Structures

New Trends in Structural Health Monitoring

The Herrmann Session

Generalized Continua from the Theory to Engineering Applications

Mechanics of Masonry Structures

63 lecturers from 17 countries
364 participants from 33 countries

2012

The Cercignani Session

Multiscale Modelling of Complex Materials

Materiomics: Multiscale Mechanics of Biological Materials and Structures

Dynamic Localization Phenomena in Elasticity, Acoustics and Electromagnetism

Topology Optimization in Structural and Continuum Mechanics

Modal Analysis of Nonlinear Mechanical Systems

Stochastic Methods in Fluid Mechanics

Analysis, Modeling and Simulation of Collective Dynamics from Bacteria to Crowds

Constitutive Relations of Materials under Impact Loadings: Experiments, Theoretical and Numerical Aspects

Advanced Methods for Material Forming Analysis and Design - CANCELLED

The Nowacki Session

Multiscale Mechanics of Granular Materials

Dynamics of Mechanical Systems with Variable Mass

Theories and Computational Models for Multilayered Composite Structures

68 lecturers from 21 countries
321 participants from 40 countries

2013

The Van Dyke Session

Iso-Geometric Methods for Numerical Simulation

Active and Passive Vibration Control of Structures

Identification Methods for Structural Health Monitoring and Residual Lifecycle Assessment

19th CISM-IUTAM Summer School on "Variational Approaches to Damage in Continua and Interfaces"

Non-Spherical Particles and Aggregates in Fluid Flows

Bone Cell and Tissue Mechanics

Nonlinear Mechanics of Soft Fibrous Materials

Separated Representations & PGD Based Model Reduction: Fundamentals and Applications

The Troger Session

The Fluid Dynamics of Climate

Fractal Flow Design: how to Design Bespoke Turbulence and why

Differential-Geometric Methods in Computational Multibody System Dynamics

Failure and Damage Analysis of Advanced Materials

Structure-Preserving Integrators in Nonlinear Structural Dynamics and Flexible Multibody Dynamics

79 lecturers from 22 countries
454 participants from 37 countries

2014

The J. Carlos Simo Session

Collective Dynamics of Particles: from Viscous to Turbulent Flows

Extremely Deformable Structures

Topology Optimization of Structures and Continua – Computational Aspects and Background

Mechanobiology of Cells and Tissues: Motility and Morphogenesis

20th CISM-IUTAM International Summer School on "Multiscale Mechanobiology of Bone Remodeling and Adaptation"

Flowing Soft Matter: Bridging the Gap between Statistical Physics and Fluid Mechanics

Cavitation Instabilities and Rotordynamic Effects in Turbopumps and Hydroturbines

Structure and Multiscale Mechanics of Carbon Nanomaterials

Advances in Medium and High Temperature Solid Oxide Fuel Cells Technology

The D. Howell Peregrine Session

Electrospinning: Exploiting Electrohydrodynamics and Rheology for the Control of Nanofiber Structural and Physical Properties

Ferroic Functional Materials: Experiment, Modeling and Simulation

CISM - AIMETA Advanced School on Shelllike Structures: Advanced Theories and Applications

Singular Configurations of Mechanisms and Manipulators

Advanced Finite Element Technologies

Seismic Safety Assessment and Design of Industrial Plants Under Accident Conditions

87 lecturers from 22 countries
442 participants from 41 countries

2015

The Frans T.M. Nieuwstadt Session

COST Training Summer School on "Interaction of Microscopic Structures and Organisms with Fluid Flows"

Dynamics of Bubbly Flows

Bone Cell and Tissue Mechanics

21th CISM-IUTAM International Summer School on "Measurement, Analysis and Passive Control of Thermoacoustic Oscillations"

Mixing and Dispersion in Flows Dominated by Rotation and Buoyancy

CISM - AIMETA Advanced School on "The Art of Modeling Mechanical Systems"

The Piero Villaggio Session

Particles in Wall-Bounded Turbulent Flows: Deposition, Re-Suspension and Agglomeration

CISM-ECCOMAS International Summer School on "Modelling, Simulation and Characterization of Multi-Scale Heterogeneous Materials"

Material Parameter Identification and Inverse Problems in Soft Tissue Biomechanics

57 lecturers from 17 countries
321 participants from 30 countries

2016

The Horst H.E. Leipholz Session

Small Scale Modeling and Simulation of Turbulent Multi-phase Flows

Computational Acoustics

Visco-plastic Fluids: from Theory to Application

CISM-AIMETA Advanced School on "Global Nonlinear Dynamics for Engineering Design and System Safety"

CISM-ECCOMAS International Summer School on "Computational Fluid-Structure Interaction"

22nd CISM-IUTAM International Summer School on "Biological and Bio-inspired Fluid Mechanics"

The Role of Mechanics in the Study of Lipid Bilayers

Wall-Bounded Turbulence

Multiscale Modeling of Flowing Soft Matter and Polymer Systems

The Alexandre Favre Session

Mechanics and Physics of Fracture: Multi-scale Modeling of the Failure Behaviour of Solids

Computational Contact and Interface Mechanics

Vehicle Dynamics of Modern Passenger Cars

Time-periodic Systems: Theory and Application

78 lecturers from 18 countries
405 participants from 39 countries

2017

The Sándor Kaliszky Session

Computational Methods for the Analysis, Design, and Failure of Composites

CISM-AIMETA Advanced School on "Dynamic Stability and Bifurcation in Nonconservative Mechanics"

Mesoscale Models: from Micro-Physics to Macro-Interpretation

Towards a seamless Integration of CAD and Simulation

23rd CISM-IUTAM International Summer School on "Growth and Remodeling in Soft Biological Tissue"

Mechanics of Liquid and Solid Foams

Bone Cell and Tissue Mechanics

The Franz Ziegler Session

CISM-ECCOMAS International Summer School on "Novel Finite Element Technologies for Solids and Structures"

Flowing Matter

Material Parameter Identification and Inverse Problems in Soft Tissue Biomechanics

Advanced Professional Training on "Pressure Control with Energy Production by PAT

(Pump as Turbine) in Water Supply Networks"

65 lecturers from 16 countries
367 participants from 34 countries

2018

The Stephen C. Cowin Session

Fluid Mechanics of Planets and Stars

Transport Phenomena in Complex Fluids

Mechanics of Strain Gradient Materials

High-performance Computing of Big Data for Turbulence and Combustion

Modelling and Simulation of Tribological Problems in Technology

Advanced Topics in MHD

Wave Turbulence and Extreme Events

Turbulent Mixing in Stratified Flows

Fluid Dynamics Effects on Particle Formation in Crystallization Processes

Mechanics of Fibrous Materials and Application: Physical and Modelling Aspects

CISM-ECCOMAS International Summer School on "Efficient High-order Discretizations for Computational Fluid Dynamics"

Substructuring in Engineering Dynamics: Emerging Numerical and Experimental Techniques

Advanced After-treatment Technologies for Automotive Applications

The Bruno A. Boley Session

Thermodynamics of Irreversible Processes in Material Systems

CISM-AIMETA Advanced School on "Cell Mechanobiology: Theory and Experiments on the Mechanics of Life"

Modeling in Engineering using Innovative Numerical Methods for Solids and Fluids

97 lecturers from 9 countries
453 participants from 22 countries

- Advanced Professional Training courses (APT)

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APPENDIX A2

COURSES AND SEMINARS FOR RESEARCH AND EDUCATION SPONSORED BY UNESCO

1973
Experimental methods in mechanics
Discrete problems in structural mechanics
Topics in system and information theory
Rheology. Theory and applications

1974
Problems in soil mechanics. Experiments, theories and applications
Engineering plasticity. Civil engineering
Structural optimization
Introduction to experimental methods in mechanics

1975
Propagation of elastic waves. Applications to structural design
Engineering plasticity and nonlinear dynamics
Soil mechanics. Experiments, theory and applications

1976
Excitation of structures by earthquakes and atmospheric turbulence
Problems of stability of elastic systems
Experimental methods in mechanics

1977
Applications of dynamical system theory
Shakedown (adaptation) of elastic-plastic structures
Theory of plates and shells
Thermomechanics of magnetic fluids

1978
Thermal and earthquake induced effects in engineering structures
Multi-user communications and data networks. Theory and technical applications
Recent developments and theories of elasticity and plasticity. Applications in civil engineering
Numerical approaches in engineering.
Optimization problems. Finite element method

1979
Steel structures. Design problems and load analysis including offshore engineering
Thermal effects in engineering structures
Plastic behaviour of structures. Applications in civil engineering
Soil mechanics

1980

Hydro- and aerodynamics. Applications in engineering

Soil mechanics. Theory and applications in engineering

Dynamic problems in engineering

Structural problems in offshore engineering

1981

Theory and applications of structural engineering

Soil mechanics problems in engineering

Mathematical theory of dynamical systems and microphysics

1982

Theory and application of rock mechanics

Problems of fatigue, fracture and corrosion in structural materials

Single perturbations in systems and control

Workshop on analysis and design of algorithms in combinatorial optimization

1983

School on algorithm design for computer system design

Plasticity problems in engineering

Experimental methods in solid mechanics

3rd Seminar on "Dynamical systems and microphysics: system theory and mechanics"

1984

Mechanical problems of unconventional energy sources

Methods of rock engineering

Mathematics of multicriteria optimization

Postgraduate course on computation theory

1985

General theory, computational concepts and applications of thin shell structures and postbuckling behaviour of structures

Algorithms and data structures for geometric computation
4th international seminar on "Mathematical theory of dynamical systems and microphysics: information complexity and control in quantum physics"

1986

Expert system design: methodologies and tools
Stochastic in combinatorial optimization

1987

Analysis and estimation of stochastic mechanical systems

Recent advances in computational nonlinear mechanics

Operations research models for flexible manufacturing systems

1988

Structural optimization under stability and vibration constraints

Internal variables in thermodynamics and continuum mechanics

1989

Geometries, codes and cryptography

Numerical methods in geomechanics
including constitutive modelling

1990

Linear prediction: theory and applications

CISM-IIASA Summer school on
"Methodology, implementation and
applications of decision support systems"

1991

College on fundamentals of computer
science

Algorithms and complexity

School on Intelligent systems for signal and
image understanding

1992

Summer school on "Logic and artificial
intelligence"

VI International conference on "Stochastic
programming"

1993

Advances in database theory,
implementations and applications

1994

Advanced school on "Typed lambda
calculus and functional programming"

1995

Nonlinear analysis and boundary value
problems for ordinary differential equations

1996

School and workshop on "Approximate
solution of hard combinatorial problems"

1997

IC-EATCS Annual advanced school:
"Models and paradigms for concurrency"

1998

School and Workshop on "Computational
molecular biology"

School on "On-line algorithms"

1999

Environmental geomechanics

IFIP - UNESCO Workshop/Meeting on
"Formal description of programming
concepts"

2000

Emerging methods for treating
multidisciplinary optimization problems

Smart structures: theory and applications

Advanced numerical applications and
plasticity in geomechanics

2001

Principles of nonparametic learning

Stability of structures: modern problems
and unconventional solutions
Formalware engineering: formal methods
for engineering software

2002

Phase change with convection: modelling and validation

School/Workshop on "Models and algorithms for the Web"

Fundamental problems and new perspectives in thermodynamics

2003

Moving discontinuities in crystalline solids

Effect of heat on concrete

Degradations and instabilities in geomaterials

Chemo-mechanical couplings in porous media - Geomechanics and biomechanics

Bone cell and tissue mechanics

Mechanics of solid polymers: the kinetics of irreversible processes

Microfluidics: history, theory and applications

Walking: biological and technological aspects

Dynamical systems, wave based computation and neuro-inspired robots

Parameter identification of materials and structures

Phenomenological and mathematical modelling in structural instabilities

Mechanics of microstructured materials

New perspectives in thermodynamics: from the macro to the nanoscale

2004

Multiscale modelling of damage and fracture processes in composite materials
Control of solids and structures:

mathematical modelling and engineering applications

Microsystems mechanical design

Environmental stratified flows

Applied micromechanics of porous materials

Surface waves in geomechanics: direct and inverse modelling for soils and rocks

Modelling and experimentation in two-phase flow

Nonlinear waves in fluids: recent advances and modern applications

Nonlinear dynamics and chaos for high volume and ultra precision metal cutting

Nonsmooth mechanics of solids

2005

School/Workshop on "New perspectives in thermodynamics quantifying non-equilibrium processes"

APPENDIX A3

LIST OF SYMPOSIA AND INTERNATIONAL MEETINGS

1971

Conference on "Existence and stability in elasticity", in cooperation with the Italian National Research Council (CNR) and NSF (USA)

First National congress of AIMETA (Italian Association for Theoretical and Applied Mechanics)

1972

Symposium on "Micropolar elasticity"

Meeting of the General activities committee of RILEM (Réunion Internationale des Laboratoires d'Essais et de Recherches sur les Matériaux et les Constructions) and of its coordination group

1973

First Symposium Ro.Man.Sy., jointly organized by CISM and IFToMM (International Federation for the Theory of Machines and Mechanisms)

1974

International symposium on "Automatic analysis in cardiology", organized in cooperation with the Cardiology Division of the Udine hospital

Meeting on "Industrial and social aspects of robots", organized in cooperation with ANIPLA and the (CNR)

Fifth International conference on "Stress analysis" organized in cooperation with AIAS (Associazione Italiana per l'analisi delle sollecitazioni) and with AIMETA

Scientific meeting on "New trends of development in nonlinear mechanics",

organized in cooperation with the editorial board of the International journal of nonlinear mechanics

International conference on "Structured media and mixtures", co-sponsored by the (CNR) and NSF (National Science Foundation)

Symposium on "Thermomechanics in solids"

Meeting of the Bureau and the General Assembly of IUTAM (International Union of Theoretical and Applied Mechanics), with a parallel session on "Modern problems in mechanics"

RILEM-CISM Symposium on "Tests and observations of models and structures and their behaviour versus time", co-sponsored by CISM and RILEM (Réunion Internationale des Laboratoires d'Essais et de Recherches sur les Matériaux et les Constructions)

IASS-CISM Symposium on "Folded plates and spatial panel structures", co-sponsored by CISM and IASS (International Association for Shell and Spatial Structures)

International Meeting on "Work and illness. Historical and modern aspects" in cooperation with the (CNR)

First Seminar of GES (Italian Group for Economics and System Theory) in cooperation with the Italian National Research Council

1975

International Symposium on "Algebraic system theory", in cooperation with the Italian National Research Council

Advanced School on "Fundamental analysis techniques for signals and systems", in

cooperation with PCL (Polytechnic of Central London)

Second Italian-Polish Meeting on "Bioengineering" in cooperation with the Italian National Research Council and the Polish Academy of Sciences

Second Seminar of GES on "System theory and economics", in cooperation with the (CNR), the Einaudi Foundation, IBM-Italy, and with the International Institute for Communications

Meeting of the UNESCO working group on International Centres

1976

IFAC International Symposium on "Large scale systems. Theory and applications", sponsored by IFAC (International Federation for Automatic Control), the Italian National Research Council, and ANIPLA

Courses on "Antiseismic engineering", sponsored by the Government of the Friuli-Venezia Giulia Region and various local Industrial and Engineering Associations.

Summer School on "Microwave antenna measurements", in cooperation with the Electromagnetic Institute of the Technical University of Denmark

International Symposium on "Restoration of monuments in earthquake regions" in cooperation with ICOMOS (International Council of Monuments and Sites) and the Italian Institute for Castles

International Meeting on "The Friuli earthquake", in cooperation with EAEE (European Association for Earthquake Engineering)

Round Table on Solar energy

Meeting on "Present-day problems in astronomy", organized by the Italian Association for Astronomy

2nd CISM-IFToMM Ro.Man.Sy Symposium, jointly organized by CISM and IFToMM

1977

Third Seminar of GES in cooperation with the Italian National Research Council

Symposium on "International experience of reconstruction of monuments in seismic areas", organized by the Italian Institute for Castles and supported by UNESCO

Fifth "Regional seminar on earthquake engineering", organized in cooperation with AIDIS (Italian Association for Antiseismic Engineering, UNESCO and the Italian National Research Council)

1978

International Seminar on "Constructions in seismic zones", organized by ISMES (Experimental Institute for Models and Structures), IABSE (International Association for Bridge and Structural Engineering), AIDIS and CISM

Fifth International Colloquium on "Automata languages and programming" in cooperation with EATCS (European Association for Theoretical Computer Science), Italian National Research Council and Institute for Automatics of Rome University

Course and Seminar on "Design of reinforced concrete structures in seismic zones", in cooperation with the Regional Government of Friuli-Venezia Giulia

3rd CISM-IFToMM Symposium on "Theory and practice of robots and manipulators" (Ro.Man.Sy '78), jointly organized by CISM and IFToMM

Meeting of the Executive Council of IFToMM (International Federation for the Theory of Machines and Mechanisms)

Fourth Seminar on "System theory and economics" in cooperation with the Italian National Research Council

Meeting on "Progress in the application of system analysis to environmental management and engineering" in cooperation with UNESCO

1979

International Symposium on "Man under vibration, suffering and protection", in cooperation with IFToMM (International Federation for the Theory of Machines and Mechanisms) and WHO (World Health Organization)

International School on "Analysis and design of algorithms in combinatorial optimization", in cooperation with the Italian National Research Council

1980

National meeting on "Earthquake engineering in Italy - Trends in development", in cooperation with the Italian National Research Council and the Italian Association of Earthquake Engineering

School on "Speech recognition", sponsored by CISM and IBM-Italy

Round Table Meeting: "A critical appraisal of the present state of economics"

1981

CISM-IUTAM Symposium on "Crack formation and propagation", sponsored by CISM, IUTAM and the Polish Academy of Sciences

Euromech Colloquium 140 on "Solution methods in structural plasticity", organized by CISM in collaboration with the University of Udine

First Session of "Seminars on geology applied to lapideous rock masses"

4th CISM-IFToMM Romansy Symposium on "Theory and practice of robots and manipulators"

1982

Meeting on "Unilateral problems in structural analysis", sponsored by AIMETA (Italian Association for Theoretical and Applied Mechanics)

Meeting of the Italian Mathematical Union (UMI) "Mathematical research in engineering faculties"

Italian-Soviet Meeting on "The theory of hierarchic structures" with Italian National Research Council-University of Udine and Soviet Academy of Sciences

International seminar on "The impact of electronics and computers on the training of mechanical and industrial engineers", in cooperation with SEFI (Societé Européenne pour la Formation des Ingénieurs) and the University of Udine

Meeting on "Strengthening of buildings", jointly organized by CISM and the University of Udine, in Italian

Workshop on "Analysis and design of algorithms in combinatorial optimization", sponsored by CISM and UNESCO

Seminars on "Geology applied to lapideous rock masses"

Convegno sulla ricerca matematica nelle facoltà di ingegneria in cooperation with UMI (Unione Matematica Italiana)

1983

"Eurocrypt '83", School organized by CISM and Association for Cryptographic Research and Westfield College, London

Meeting on "Strengthening of buildings", organized by CISM and the University of Udine

Meeting on "Unilateral problems in structural analysis – 2", sponsored by AIMETA (Italian Association for Theoretical and Applied Mechanics)

College on "Computer sciences" in the framework of the UNESCO project "Applied informatics in developing countries" financed by the United Nations Development Program and the Italian Government

Int. Symposium "Plasticity today" dedicated to the memory of professor W. Olszak

1984

Conference on "Abelian Groups and modules", organized in cooperation with the universities of Udine and Padua

Seminar on "The training of international engineers for European industry: a need and a challenge", organized in cooperation with SEFI and the University of Udine

Meeting on "Nonlinear calculation of reinforced concrete structures", organized by CISM and the University of Udine

5th CISM-IFToMM Symposium on "Theory and practice of robots and manipulators"

Italian-Soviet Meeting on the "General theory of structures" held in the frame of the agreement CNR-Soviet Academy of Sciences

1985

Second CISM-IFToMM Symposium on "Man under vibration", co-sponsored by IFToMM and the USSR Academy of Sciences

3rd Meeting on "Unilateral problems in structural analysis", in cooperation with the University of Udine

Meeting on "Automatic calculation of structures in reinforced concrete", in cooperation with the University of Udine

IUTAM-IFToMM-CISM Symposium on "Dynamics of multibody systems"

1986

Post-Graduate Programme in Mechanical Sciences, partly supported by the Italian Ministry for Foreign Affairs

6th CISM-IFToMM Symposium on "Theory and practice of robots and manipulators

1987

Post-Graduate Programme in Mechanical Sciences – 2nd year, partly supported by the Italian Ministry for Foreign Affairs

ICMI-ICSU-CTS Seminar on "Mathematics as a service subject", in cooperation with ICMI (International Committee on Mathematical Instruction) and ICSU-CTS (International Council of Scientific Unions and the Committee for the Teaching of Science)

School of Professional Advancement on "Acoustic emission methods in science and technology", organized and sponsored by CISM and the Polish Academy of Sciences

Symposium on "Sensitivity analysis and optimal shape design", sponsored by CISM and the Polish Academy of Sciences

Meeting of the "Groupe Internationale des Recherches Systèmes Experts en Médecine" (GIRSEM)

Workshop on "Mechanics and informatics towards the automatic factory"

Experts' Meeting on "Short-term earthquake prediction", sponsored by UNESCO and the Commission of the European Communities

1988

7th CISM-IFToMM Symposium on "Theory and practice of robots and manipulators"

"Ottimizzazione strutturale e teoria dei controlli", jointly organized by CISM and Italian National Research Council (CNR)

5th Danubria-Adria Symposium on "Experimental methods in solid mechanics", sponsored by AIAS (Italian Association for Stress Analysis), CISM, ASESA (Austrian Society of Experimental Strain Analysis), Hungarian Scientific Society of Mechanical Engineers, and the Yugoslav Society of Mechanics (Croatian Society of Mechanics)

1989

COMETT - Community Action Programme for Education and Training in Technology, sponsored by EC: 1."Ottimizzazione discreta" 2. "Ottimizzazione discreta CAD in ambito

ASIC " (Application specific integrated circuits) 3. La tecnologia dei sistemi esperti nella diagnostica industriale

4th Meeting on "Unilateral problems in structural analysis"

Symposium AIRO (Associazione Italiana di Ricerca Operativa): "Innovazione tecnologica delle imprese nel governo del territorio"

1990

8th CISM-IFToMM Symposium on "Theory and practice of robots and manipulators"

CISM-IIASA Summer school on "Methodology, implementation and applications of decision support systems" sponsored by UNESCO

Consolidating course on "Fundamentals of mechanics", held in Szombathely, Hungary

Eurocode '90 - International colloquium on "Coding, algorithms and secure communication"

II COMETT - Community Action Programme for education and training in technology, sponsored by EC: two meetings in cooperation with University of Udine

1991

College on "Fundamentals of computer science", supported by UNESCO and Ministry of Foreign Affairs

School on "Intelligent systems for signals and image understanding", sponsored by EUR-ASIP, UNESCO and University of Udine

School on "Metodologia statistica per il trattamento delle misure" organized in cooperation with CNR

1992

Meeting of the EUROMECH Council

9th CISM-IFToMM Symposium on "Theory and practice of robots and manipulators"

6th International conference on "Stochastic Programming", sponsored by UNESCO

Summer school on "Logic and artificial intelligence", sponsored by UNESCO

Eurocode '92

1993

CISM-IFToMM Symposium on "Diagnostics of rotating machines in power plants"

GIRSEM (Groupe International Recherches Systèmes Expert en Médécine) Meeting on "Neuroradiology and artificial intelligence"

AMST '93 – 3rd International conference on "Advanced manufacturing systems and technology"

Europrotech, seminars organized in cooperation with the Friuli Venezia Giulia Region-Civil Defence

International society for photogrammetry and Remote sensing commission III working group III/4. Tutorial on "Theory and algorithms for digital photogrammetric systems"

1994

Symposium on "Advanced methods for groundwater pollution control", organized in cooperation with the Friuli V.G. Region-Civil Defence

10th CISM-IFToMM Symposium on "Theory and practice of robots and manipulators"

Advanced School on "Typed lambda calculus and functional programming", sponsored by UNESCO

Euromech Colloquia "Microstructure and phase transitions in solids"

3rd International conference: "Localized damage 94 - Computer aided assessment and control"; organized in cooperation with Wessex Institute of Technology

ISSEK 94 – International workshop on "Mathematical and statistical methods

in artificial methods", organized by the International school for the synthesis of expert knowledge

La visione delle macchine '94

1995

International Society of Photogrammetry and Remote Sensing

Commission I - Workshop on "Multimedia GIS data"

10th International Conference "AIENG 95 – "Applications of artificial intelligence in engineering", organized in cooperation with Wessex Institute of Technology

Nonlinear analysis and boundary value problems for ordinary differential equations

1996

11th CISM-IFToMM Symposium on "Theory and practice of robots and manipulators"

AMST '96 – 4th International conference on "Advanced manufacturing systems and technology"

ISSEK 96 – 2nd International workshop on "Learning Networks and statistics"

1997

UM97: 6th International conference on "User modeling", held in Chia Laguna, Cagliari

IC-EATCS Annual advanced school on "Models and paradigms for concurrency"

1998

12th CISM-IFToMM Symposium on "Theory and practice of robots and manipulators", held in Paris

Computational biology, sponsored by UNESCO

School on "On-line algorithms", sponsored by UNESCO

ISSEK 98 -International workshop on "Computational intelligence on data mining"

4th European Conference on "Numerical methods in geotechnical engineering"

1999

CISM's thirty years celebration conference on "Environmental applications of mechanics and computer science"

Europe and India: past, present, future. Four courses instituted by CISM and B.M. Birla Centre, Hyderabad:

Reliability engineering and software - Udine

Diagnostics of rotating machinery - Hyderabad

Computer system architecture – Udine

Design of heuristics for the solution of complex problems in resourse management – Hyderabad

AMST '99 – 5th International conference on "Advanced manufacturing systems and technology"

IFIP-UNESCO 2.2 Meeting on "Formal description of programming concepts", sponsored by UNESCO

2000

13th CISM-IFToMM Symposium on "Theory and practice of robots and manipulators", held in Zakopane, Poland

Europe and India: past, present, future. Four courses instituted by CISM and B.M. Birla Centre, Hyderabad:

Modelling, optimization and Simulation: problems and applications - Udine
Advanced optimization techniques for operations research - Hyderabad
Mechanics of Saturated and partially saturated porous media and applications to

environmental problems - Hyderabad

Functional programming: foundations and applications - Hyderabad

Trends in mobile radio communication technologies - Udine

ISSEK 2000 - International workshop on "Fusion and perception", organized by International school for the synthesis of expert knowledge

CEPET- Workshop by the Central European programme in economic theory

2001

Europe and India: past, present, future. Five courses instituted by CISM and B.M. Birla Centre, Hyderabad:

New trends in human computer interaction - Udine

The pilot project in Patancheru: a case study - Hyderabad

Models and Metamodels for Software verification and validation - Hyderabad

Environmental geomechanics - Hyderabad

Probabilistic models in combinatorial optimization - Udine

CEPET- 2nd Workshop by the Central European pogramme in economic theory

2002

ROMANSY 2002 - 14th CISM-IFToMM Symposium on "Theory and practice of robots and manipulators"

Workshop/School on "Models and algorithms for the web"

"Fundamental problems and new perspectives in thermodynamics", sponsored by UNESCO

Design and Nature 2002

CEPET- 3rd Workshop by the Central European programme in economic theory

AMST '02 – 6th International conference on "Advanced manufacturing systems and technology"

ISSEK 2002 - International workshop on "Planning based on decision theory", organized by International school for the synthesis of expert knowledge

2003

Biomechanics and Sport

Finite element applications in geotechnical engineering

New perspectives in thermodynamics: from the macro to the nanoscale, School held at CISM, workshop at UNESCO-ROSTE in Venice

CEPET- 4th Workshop by the Central European programme in economic theory

2004

CEPET- 5th Workshop by the Central European programme in economic theory

ROMANSY 2004 - 15th CISM-IFToMM Symposium on "Robot Design, Dynamics and Control", held in Montreal

ISSEK 2004 - International workshop on "Intelligent agents: decision- support and planning"

Security assessment, control and management of dams

2005

AMST'05 – 7th International conference on "Advanced manufacturing systems and technology"

CEPET - 6th Workshop by the Central European programme in economic theory

NoE KMM - First integrated summer school sponsored by the European Commission

School/Workshop on "New perspectives

in thermodynamics quantifying non-equilibrium processes", sponsored by UNESCO

2006

Crack propagation in welded structures

New tendencies in fatigue analysis

ROMANSY 2006 - 16th CISM-IFToMM Symposium on "Robot Design, Dynamics, and Control", held in Warsaw

CEPET - 7th Workshop by the Central European programme in economc theory

NoE KMM - Second summer school, sponsored by the Europeand Commission

ISSEK 2006 – International workshop on "Similarities and Preferences"

2007

New approaches to analysis and testing of mechanical and structural systems

CEPET - 8th Workshop by the Central European programme in economic theory

NoE KMM - Third summer school, sponsored by the European Commission

2008

ROMANSY 2008 - 17th CISM-IFToMM Symposium on "Robot Design, Dynamics, and Control", held in Tokyo

NoE KMM - 5th Intensive Session of PhD path. Processing, modelling and design of multi-layered and graded material systems

2009

CEPET - 10th Workshop by the Central European programme in economic theory

2010

ROMANSY 2010 18th CISM-IFToMM Symposium on Robot Design, Dynamics, and Control

2011

2nd Meeting IU.NET
Workshop on "Uncertain Dynamical Systems"

2013

EduServ 11 - E-Learning courses 2013 by EuroSDR

2014

CISM - EMS School "New Perspectives on the classification of Fano Manifolds"

2017

CISM-JMBC Course on Complex Flows and Complex Fluids
CISM-EMS School on Rationality, Stable Rationality and Birationally Rigidity of Complex Algebraic Varieties

2018

Marie Curie – ITN ANTARES School on "Smart Systems for Vibration Control, Energy Harvesting, Tactile Feedback, Measurement and Monitoring"
Marie Curie - ITN School on "Damage and Failure of Materials under Extreme Conditions"

APPENDIX A4

LIST OF LECTURERS

H. Aben	Estonian Academy of Sciences, Tallinn
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A. Akay	Bilkent University
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H. Akiyama	Nihon University, Tokyo
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M. Allen	University of Wisconsin-Madison
O. Allix	École Polytechnique Cachan LMT

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R. Ballarini	University of Houston
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M. Barrère	ONERA, Chatillon s. Bagneux
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W. Becker	Universität Siegen
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H. Bednarczyk	Universität Stuttgart
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G. Belingardi	Politecnico di Torino
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D.E. Beskos	University of Patras
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L. Colombo	Università di Cagliari
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L. Corradi	Politecnico di Milano
L. Cortelezzi	McGill University, Montreal
N. Cottin	Universität Hannover
V. Couaillier	ONERA, DSNA, Chatillon
M. Courbage	Université de Paris VI
O. Coussy	Lab. Central des Ponts et Chaussées, Paris
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N. Cristescu	University of Florida, Gainesville
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F. Crosilla	Università di Udine
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C. Crowe	Washington State University, Pullman
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M. Davidster	University of Colorado, Denver
G. Davies	University of Nottingham
J.M. Davies	University of Manchester
P.O.A.L. Davies	University of Southampton
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T. Tucciarelli	Università di Palermo
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W. Tulczyjew	University of Calgary
V. Tvergaard	Technical University of Denmark, Lyngby
F.-J. Ulm	Massachusetts Institute of Technology
H. Unbehauen	Ruhr-Universität Bochum
M. Ungarish	Technion, Haifa
A. Unsworth	University of Durham
P.K. Vaha	Technical Research Center, Oulu

U. Vaidya   University of Alabama, Birmingham
A. Vakakis   National Technical University, Athens
K.C. Valanis   University of Iowa, Iowa City
M. Valasek   Czech Technical University, Prague
C. Valette   CNRS Université Pierre et Marie Curie, Paris
L. Valiant   University of Edinburgh
G. Valtinat   Technical University Hamburg-Harburg
J.-M. Valverde   University of Seville
P.M. Van den Berg   Delft University of Technology
A.H.P. van der Burgh   Delft University of Technology
E. van der Giessen   University of Groningen
A. Van Der Meer   C. F. Geo-information. Processing, Wageningen
A. Van der Schaft   University of Twente
M. van der Seijs   VIBES Technology
A. Van Der Velden   Synaps Inc., Atlanta, GA
K. Van Hee   Eindhoven University of Technology
G.J. van Heijst   Eindhoven University of Technology
R. van Hout   Technion-IIT
D. Van Hove   TNO Building and Construction Research, Delft
M. Van Kreveld   University of Utrecht
J. Van Lint   Technical University of Eindhoven
E.H. Vanmarke   M.I.T., Cambridge
J.G.M. Van Mier   ETH Zentrum, Zürich
J. Vanneste   University of Edinburgh
P. Van Oossanen   Netherlands Ship Model Basin, Wageningen
B. Van Rietbergen   Eindhoven University of Technology
H. Van Swygenhoven   Paul Scherer Institute, Villingen
B. van Wachem   Imperial College London
M. Vardi   IBM Laboratory, California
I. Vardoulakis   National Technical University, Athens
R. Varshamov   Armenian Academy of Sciences, Yerevan
J.C. Vassilicos   University of Cambridge
I. Vayas   National Technical University, Athens
M.G. Velarde   Instituto Pluridisciplinar U.C.M. / Fluidos, Madrid
W. Velte   Universität Würzburg
P. Venini   University of Pavia
S. Venzi   SNAM Progetti, Milano
C. Vercellis   Università di Milano
L. Verdini   Università di Trieste
C. Veret   Division Optique ONERA, Chatillon sous Bagneux
A. Verri   Università di Genova
A. Vesely   Institute of Hematology, Prague

F. Vestroni	Università "La Sapienza", Roma
D.C. Viano	Saab Automobile AB, Trollhattan
C. Videla C.	Pontificia Universidad Católica de Chile
M. Vignes-Adler	Université de Marne la Vallée
T.A. Vilgis	Max-Planck-Institut for Polymer Research, Mainz
A. Villa	Politecnico di Torino
P. Villaggio	Università di Pisa
E. Villermaux	IRPHE, Marseille
J.F.V. Vincent	University of Reading
S. Vincent	Paris-Est Marne-La-Vallée University
T. Vincent	University of Arizona, Tucson
R.S. Vinnakota	Marquette University, Milwaukee, WI
E. Viola	Università di Bologna
L. Virgin	Mechanical Engineering
R. Visentin	Università della Calabria, Arcavacata
A.J. Viterbi	Linkabit Corporation, San Diego
E. Vitiello	Politecnico di Milano
P.M. Vlahovska	Northwestern University
C. Volkert	University Göttingen
K. Vollrath	Deutsch-Franz Forschungsinstitut, St. Louis-Haut Rhin
M. Volpato	Università di Venezia
G. Voth	Wesleyan University
G.Z. Voyiadjis	Louisiana State University, Baton Rouge, LA
J. Vuillemin	Université de Paris Sud
B. Vujanovic	University of Novi Sad
M. Vukobratovic	Institute "Mihailo Pupin", Belgrade
A. Vulpiani	Università La Sapienza
A.M. Waas	University of Michigan
A. Wachs	The University of British Columbia
V. Wadekar	Hyprotech UK Ltd., Harwell
D.J. Wagg	University of Bristol
W. Wagner	Universität Karlsruhe
F. Wald	Czech Technical University, Prague
K.J. Waldron	The Ohio State University, Columbus
J.D. Walker	Lehigh University, Bethlehem, PA
W.A. Wall	Technische Universität München, Garching
K. Walters	University College of Wales, Aberystwyth
J.R. Walton	Texas A & M University, College Station
O. Walton	Grainflow Dynamics Inc.
R. Wan	University of Calgary
C.D. Wang	Rice University, Houston
J.Z. Wang	Cornell University, Ithaca, N.Y.

M.	Ward	University of British Columbia
R.	Wardlaw	Glouchester, Ontario
Z.	Waszczyszyn	Technical University of Cracow
K.	Watson	Xerox Corporation, Webster, N.Y.
M.	Wax	Technion, Haifa
P.	Weaver	University of Bristol
B.	Webb	The University of Edinburgh
W.	Wedig	Universität Karlsruhe
R.	Weibel	University of Zürich
D.	Weichert	R.W. Technische Hochschule Aachen
H.	Weimann	ITC IABG, Ottobrunn
H.	Weinberger	University of Minnesota, Minneapolis
G.	Weinreich	University of Michigan, Ann Arbor
R.	Weissmann	University of Erlangen-Nürnberg
Y.K.	Wen	University of Illinois, Urbana-Champaign
W.L.	Wendland	Technische Universität Darmstadt
P.	Wenger	Inst. de Rech. en Comm. et Cybernétique de Nantes
Z.	Wesolowski	Institute of Fundamental Technological Research, Warsaw
R.H.	Weston	Loughborough University of Technology
M.G.	White	University of Trondheim
P.	Widmayer	ETH Zentrum, Zürich
M.	Wiercigroch	University of Aberdeen
T.	Wierzbicki	Institute of Fundamental Technological Research, Warsaw
M.	Wiklund	KTH - Royal Institute of Technology
J.	Wilder	State University of New Jersey, Piscataway
J.C.	Willems	University of Groningen
J.L.	Willems	University of Gent
P.	Willems	University of Louvain
D.F.	Williams	Royal Liverpool University Hospital, Liverpool
F.	Williams	University of California, San Diego
J.R.	Willis	University of Cambridge
K.	Wilmanski	WIAS, Berlin
H.	Wilquin	Faculté Polytechnique, Mons
D.I.	Wilson	University of Cambridge
A.S.	Wineman	University of Michigan, Ann Arbor
K.	Winkelmann	Siemens AG, München
A.	Wirgin	CNRS, Lab. of Mechanics and Acoustics, Marseille
J.	Wismans	TNO-Automotive/Crash S.C., Delft
K.	Wisniewski	Polish Academy of Sciences
J.	Wittenburg	Universität Karlsruhe
W.	Wittke	R.W. Technische Hochschule Aachen
M.P.	Wnuk	University of Wisconsin, Milwaukee

W. Woess	Montanuniversität Leoben
D. Wolf	Ben Gurion University of the Negev, Beer Sheva
J.K. Wolf	University of Massachusetts, Amherst
C.K. Wong	IBM T. J. Watson Research Center, Yorktown, NJ
L. Wood	Queen Mary College, London
J. Woodhouse	University of Cambridge
P.K. Woodward	Herriot-Watt University, Edinburgh
K. Worden	University of Sheffield
C. Wozniak	University of Warsaw
P. Wriggers	University of Hannover
W. Wuest	DFVLR-AVA Göttingen
W. Wunderlich	University of Technology, Munich
D. Wurz	Universität Karlsruhe
M. Wyart	EPFL
K. Yamada	University of Nagoya
M. Yannakakis	AT&T, Murray Hill, NJ
J.F.P. Yao	Purdue University, Lafayette
A. Yarin	University of Illinois at Chicago
A. Yeates	Durham University
A. Yezerets	Cummins Inc.
S. Yip	M.I.T., Cambridge
N. Yokoi	University of Tokyo
R. Young	University of Manchester
M. Younis	Binghamton University and KAUST
P.L. Yu	University of Texas, Austin
R. Zaera Polo	Universidad Carlos III de Madrid
M. Zakai	Technion, Haifa
L.C. Zaleski-Zamenhof	Université de Paris
Z. Zankovic	University of Zagreb
A. Zaoui	Ecole Polytechnique, Palaiseau
W. Zapalowicz	University of Krakow
A. Zasso	Politecnico di Milano
G. Zavarise	Politecnico di Torino, Vercelli
J. Zawidzki	Polish Academy of Sciences, Warsaw
H. Zbib	Washington State University, Pullman
M. Zebrowski	Academy of Mining and Metallurgy, Cracow
J. Zeman	Technische Universität Wien
R. Zenit	Universidad Nacional Autónoma de México
R. Zeytounian	Université de Lille
A. Zhakin	Kursk State Technical University, Kursk
J. Zhang	Carnegie Mellon University
V. Ziablov	USSR Academy of Sciences, Moscow

T. Zielinska	Warsaw University of Technology
O.C. Zienkiewicz	University College, Swansea
K. Zigangirov	USSR Academy of Sciences, Moscow
A. Zilian	Université du Luxembourg
W. Zimmerman	University of Sheffield
V. Zinoviev	Linköping Institute of Technology
S. Zionts	State University of New York, Buffalo
L. Zito	Ministero dell'Industria, Roma
J. Ziv	Technion, Haifa
D. Zlatanov	Università di Genova
Y. Zohar	Hong Kong University
T. Zohdi	University of California, Berkeley
A. Zomotor	Daimler-Benz, Stuttgart
H. Zorski	Polish Academy of Sciences, Warsaw
E. Zuazua	Universidad Autónoma de Madrid, Cantoblanco
I. Zun	University of Ljubljana
E. Zussman	Technion Israel Institute of Technology
M. Zyczkowski	Technical University of Cracow

Note: most affiliations are dated at the time when lectures were delivered at CISM.

APPENDIX A5

COUNTRIES OF ORIGIN OF LECTURERS

Argentina
Armenia
Australia
Austria
Belgium
Byelorussia
Brazil
Bulgaria
Canada
Chile
China
Croatia
Czech Republic
Denmark
Egypt
Estonia
Finland
France
Germany

Greece
Hungary
India
Ireland
Israel
Italy
Japan
Kenya
Latvia
Lithuania
Luxembourg
Malaysia
Mexico
Morocco
New Zealand
Norway
Poland
Portugal
Romania

Russia
Saudi Arabia
Serbia
Singapore
Slovakia
Slovenia
South Africa
South Korea
Spain
Sweden
Switzerland
The Netherlands
Turkey
Uganda
United Kingdom
Ukraine
USA

APPENDIX A6

COUNTRIES OF ORIGIN OF PARTICIPANTS

Afghanistan
Albania
Algeria
Argentina
Armenia
Australia
Austria
Bahrain
Bangladesh
Belarus
Belgium
Bolivia
Bosnia and
Herzegovina
Botswana
Brazil
Burkina Faso
Bulgaria
Burundi
Cameroon
Canada
Chile
China
Colombia
Congo
Costa Rica
Croatia
Cuba
Cyprus

Czech Rep.
Denmark
Ecuador
Egypt
Estonia
Ethiopia
Finland
France
Georgia
Germany
Ghana
Great Britain
Greece
Guyana
Hong Kong
Hungary
Iceland
India
Indonesia
Iran
Iraq
Ireland
Israel
Italy
Ivory Coast
Japan
Jordan
Kazakistan
Kenya

Kuwait
Latvia
Lebanon
Libya
Lithuania
Luxembourg
Malawi
Malaysia
Malta
Mauritius
Mexico
Morocco
Nepal
New Guinea
New Zealand
Nigeria
North Macedonia
Norhern Ireland
Norway
Oman
Pakistan
Panama
Peru
Philippines
Poland
Portugal
Puerto Rico
Romania
Russia

Rwanda
Saudi Arabia
Serbia
Sierra Leone
Singapore
Slovakia
Slovenia
Somalia
South Africa
South Korea
Spain
Sri Lanka
Sudan
Sweden
Switzerland
Syria
Taiwan
Tanzania
Thailand
The Netherlands
Tunisia
Turkey
Uganda
Ukraine
USA
Uzbekistan
Venezuela
Vietnam
Yemen

LIST OF COURSES BY THE SECTION OF ITALIAN ADVANCED PROFESSIONAL TRAINING

1986

Convegno di studio sull'interazione terreno-struttura in prospettiva sismica

Convegno di studio sulla manutenzione, riparazione e durabilità delle strutture in cemento armato

Corso di perfezionamento in geologia tecnica

1987

Dieci anni di ingegneria sismica
Problemi di calcolo e tecnologie nella progettazione antincendio delle strutture

Recenti sviluppi ed applicazioni della ingegneria geotecnica

Corso di perfezionamento in geologia tecnica

1988

Progettazione e ottimizzazione del rilievo topografico e fotogrammetrico di controllo

Strutture in acciaio

Aspetti computazionali in ingegneria geotecnica

La progettazione strutturale in c.a. in zone sismiche

1989

Dall'analitico al digitale: nuovi sviluppi della fotogrammetria applicata all'ingegneria
Problemi avanzati nella costruzione dei ponti

Calcoli non lineari e controllo dei risutati nell'analisi strutturale per elementi finiti

1990

Il sistema di posizionamento globale satellitare (GPS): metodologie ed applicazioni all'ingegneria del territorio

Corrosione e protezione delle armature in cemento armato

La diagnostica ed il controllo di qualità delle opere di ingegneria civile con i metodi di indagine non distruttiva

1991

Sistemi informativi territoriali: fodmenti ed applicazioni al controllo e gestione del territorio

Costruzione di gallerie

1992

Gli eurocodici

Sperimentazione in sito ed osservazioni delle opere

1993

Metodi e procedure avanzate di modellizzazione e interpretazione dei dati GPS

Monitoraggio delle strutture dell'ingegneria civile

Dinamica strutturale: moti caotici e stocastici

Problemi geotecnici relativi alle arginature ed alle sponde di fiumi e di canali di bonifica, di irrigazione, di navigazione e industriali•

1994

Problemi di ingegneria strutturale nel trasporto di energia

Fluidodinamica in bioingegneria cardiovascolare

Le strutture ed i materiali strutturali per l'alta velocità

Le tecniche di posizionamento satellitare GPS al servizio della cartografia numerica e dei sistemi informativi territoriali

Interventi di stabilizzazione di pendii naturali ed artificiali•

1995

Dinamica fluviale e opere idrauliche

Aspetti geotecnici relativi alla progettazione, alla costruzione ed al controllo delle discariche controllate•

Problemi di ingegneria civile in alta montagna

1996

Ingegneria del vento

Dinamica del movimento umano

Metodologie per il CAD nel progettazione industriale

Analisi e gestione del rischio idraulico

Problemi di ingegneria nei centri abitati

1997

Misure topografiche con il GPS nel catasto e nella cartografia numerica

Analisi limite e non lineare di strutture in c.a.: tecniche di calcolo manuale ed automatico

La nuova topografia: i robot rilevatori ed altre tecniche di posizionamento e rilevamento dinamico

Fenomeni idraulici in prossimità dei ponti

La progettazione sismica secondo le recenti indicazioni normative italiane ed europee

Aspetti geotecnici relativi alla progettazione ed alla costruzione di rilevati stradali e ferroviari

Problematiche di geotecnica ambientale

1998

Restauro architettonico e consolidamento degli edifici

Analisi e metodi di predizione delle precipitazioni

Problemi di ingegneria idraulica nella tutela dell'ambiente

Controllo e upgrading degli impianti di depurazione

Problemi di ingegneria geotecnica in aree sismiche

Biomeccanica e bioenergetica della marcia e della corsa nel soggetto sano e nel portatore di protesi d'anca e ginocchio

1999

Strumenti e metodi avanzati di acquisizione e gestione dei dati territoriali per la valutazione del rischio sismico

La valutazione delle portate di piena nei corsi d'acqua naturali in relazione alla pianificazione del territorio

La gestione integrata dei scarti di lavorazione da ciclo produttivo: tecnologia e normativa

Progetto e calcolo delle strutture in legno di ricupero

2000

La riduzione del rischio sismico nella pianificazione del territorio: le indagini geologiche e tecniche

Strutture in cemento armato e cemento armato precompresso: tecniche di progetto avanzate

Analisi del sistema fognatura-depuratore per la gestione e salvaguardia dei corpi idrici

La riduzione del rischio sismico nella pianificazione del territorio: la valutazione degli effetti locali e di sito

2001

La sfida dell'economia digitale per le aziende manifatturiere: il prodotto virtuale e la digital enterprise

Grandi rischi: pianificazione e gestione delle emergenze

Interventi per la protezione del territorio - Le casse di espansione.

Progettazione e sicurezza delle arginature di difesa dai fiumi e dal mare

Tecniche geomatiche di rilievo per lo studio e la prevenzione del rischio idrogeologico

2002

Calcestruzzi tradizionali e innovativi soggetti a fuoco

La dinamica del colpo di frusta

Tecnologie e sistemi per telecomunicazioni a larga banda

La tecnica del laser scanning: teoria e applicazioni

2003

Strutture composte nelle nuove costruzioni, nel recupero e nei ponti: tecniche di progetto avanzate

Il rischio idraulico ed idrogeologico: studi e proposte operative

L'innovazione tecnologica nell'elettronica ed automazione industriale: stato dell'arte e prospettive

La progettazione esecutiva delle strutture in cemento armato

Analisi dei movimenti franosi

Progettazione di costruzioni metalliche resistenti al fuoco

2004

Energia e problemi ad essa relativi

Emissioni inquinati da motori a combustione interna per autotrazione

Comunicazioni wireless ubique: tecnologie esistenti e future

Upgrade e collaudo di opere per il trattamento delle acque reflue

La tecnica del laser scanning terrestre

2005

Tecniche di analisi, consolidamento, rinforzo e miglioramento sismico di edifici storici

Fenomeni di trasporto solido e rischio idraulico

2006

Tecniche di rilevamento per un catasto stradale in Italia

Tecnologie innovative di protezione sismica delle strutture

Analisi non lineare delle strutture per la progettazione in zona sismica

Metodi numerici nell'ingegneria sismica

Il rilievo geomorfologico dei corsi d'acqua: la loro evoluzione e stima del trasporto solido

2007

La risposta sismica locale per la progettazione strutturale

Edilizia a basso consumo energetico

Problematiche avanzate nella progettazione delle strutture lignee

Opera di difesa di versanti rocciosi

2008

Le nuove norme tecniche nazionali ed europee per la progettazione delle strutture in c.a. e in acciaio

Stato attuale e indirizzi tecnologici e gestionali nello smaltimento dei RSU

Tecnologie emergenti per le reti in-home e la domotica
Sul consolidamento degli edifici storici
Il monitoraggio dinamico per la valutazione della sicurezza sismica dei ponti

2009

Metodologie Innovative per la Gestione Ottimale dei Sistemi di Distribuzione Idrica

Progettazione Strutturale con i Calcestruzzi (FRC) ed i Compositi (FRP) Fibrorinforzati

La Progettazione Geotecnica in Condizioni Sismiche

La nuova Normativa Tecnica per le Costruzioni D.M. 14.01.2008. Strutture in calcestruzzo armato in zona sismica

Emissioni Odorigene: Monitoraggio, Trattamento e Modellistica della Dispersione

Strutture in Legno: Progettazione e Soluzioni Innovative

Principi e Tecniche di Rilievo GNSS in Tempo Reale

2010

Scuola di Fotogrammetria Computer Vision e Scansione Laser. Primo modulo: paradigmi e algoritmi

Scuola di Fotogrammetria, Computer Vision e Scansione Laser. Secondo modulo: scansione laser e fotogrammetria per l'ingegneria, l'architettura e i beni culturali

Progettazione Geotecnica agli Stati Limite: Fondazioni e opere di sostegno con il DM 14.01.2008

Progettazione Geotecnica agli Stati Limite. Fondazioni e opere di sostegno con il DM 14.01.2008

2011

Azioni ed Effetti del Vento sulle Costruzioni

Progettazione Geotecnica agli Stati Limite. Fondazioni e opere di sostegno con il DM 14.01.2008

Modellazione in Campo Geotecnico

2012

Progettazione ed Esecuzione di Strutture in Legno alla Luce delle Nuove Normative

Geotecnica Sismica

2013

Progettazione di unioni bullonate e saldate. Aspetti generali, riferimenti normativi (secondo EC3, DM 14.01.2008 e future NTC) e modellazione ad elementi finiti

Fondazioni Profonde•

2014

Indagini e Misure Geotecniche•

Modelli, Metodi di Calcolo e Procedure di Validazione nell'analisi non Lineare delle Strutture Secondo gli Eurocodici

2015

Interazione Terreno-Struttura•

Opere Di Sostegno: Criteri di Progetto e Verifica delle Prestazioni in Presenza di Azioni Sismiche•

2016

Valutazione e Mitigazione dei Rischi da Frana e Subsidenza•

Modelli, Metodi di Calcolo e Indicazioni Normative nell'Analisi Non Lineare delle Strutture

Il Consolidamento degli Edifici Esistenti

2017

Elementi di Ingegneria Forense in Campo Strutturale

Analisi e Verifica Sismica di Serbatoi e Silos

Valutazione della Sicurezza dei Rilevati Arginali•

2018

Utilizzo Consapevole della Modellazione ad Elementi Finiti nel Calcolo Strutturale: Concetti di Base e Avanzati

Istruzioni per la Progettazione, l'Esecuzione ed il Controllo delle Costruzioni di Legno (CNR-DT 206 R1/2018)

• courses in cooperation with the "Associazione Geotecnica Italiana"

The success of this series of courses is mainly due to the strong commitment of F. Crosilla.

APPENDIX A8

LIST OF PUBLICATIONS

Courses and Lectures

  1 E. BROMMUNDT, Vibrations of Continuous Systems. Theory and Applications 1969
  2 R. STOJANOVIC, Mechanics of Polar Continua, Theory and Applications 1969
  3 R. PERMUTTI, Introduzione alla teoria degli insiemi e dei gruppi 1969
  6 Z. JANKOVIC, A Contribution to the Vector and Tensor Analysis 1969
  7 V. BRCIC, Application of Holography and Hologram Interferometry to Photoelasticity 1969
  8 L. MÜLLER, Fundamentals of Rock Mechanics 1969
  9 H. PARKUS, Random Processes in Mechanical Sciences 1969
 10 A. ROMITI, Fluidics 1969
 12 P. BROUSSE, Quelques problémes d'optimization en mécanique 1969
 16 J. BRILLA, Mixed Boundary Value Problems of Plane Anisotropic Bodies 1970
 17 A. MARZOLLO, Controllability and Optimization 1972
 18 G. LONGO, Selected Topics of Information Theory 1972
 19 H. SCHAEFER, Die Motorfelder des Dreidimensionalen Cosserat-Kontinuums im Kalkül der Differentialformen 1970
 20 O. ONICESCU, Mécanique Statistique 1971
 21 T.P. ANDJELIC, A Survey of Tensor Calculus 1970
 22 Z. JANKOVIC, Selected Topics and Applications of Tensor Analysis 1970
 23 C. ERINGEN, Foundations of Micropolar Thermoelasticity 1970
 24 R.D. MINDLIN, Polarization Gradient in Elastic Dielectrics 1970
 25 W. NOWACKI, Theory of Micropolar Elasticity 1972
 26 M. SOKOLOWSKI, Theory of Couple-Stresses in Bodies with Constrained Rotations 1972
 27 R. STOJANOVIC, Recent Developments in the Theory of Polar Continua 1972
 28 E. BERLEKAMP, A Survey on Algebraic Coding Theory 1972
 29 I. CSISZAR, Channel Coding Theory 1972
 30 R. GALLAGER, Information Theory and Reliable Communication 1972
 31 G. KATONA, General Theory of Noiseless Channels 1970
 32 G. LONGO, Source Coding Theory 1972

Other Publications

L. SOBRERO, Elementi di Ingegneria Antisismica 1972

J.H. CLARKE, Shock Waves in Nonequilibrium Radiative Gas Dynamics 1982

C. GAVARINI - M. MELE - R. RAMASCO, Progettazione di Strutture in Cemento Armato in Zona Sismica 1982

G. DEL PIERO, Il Consolidamento delle Costruzioni 1983

G. DEL PIERO, Le Costruzioni in Muratura 1984

G. DEL PIERO, Il Calcolo Non Lineare delle Strutture in Cemento Armato 1985

G. DEL PIERO, Il Calcolo Automatico delle Strutture in Cemento Armato 1986

G. DEL PIERO, Manutenzione, Riparazione e Durabilitá delle Strutture in C.A 1987

F. CROSILLA - L. MUSSIO, Progettazione ed Ottimizzazione del Rilievo Topografico e Fotogrammetrico di Controllo 1989

F. CROSILLA - L. MUSSIO, Dall'Analitico al Digitale: Nuovi Sviluppi della Fotogrammetria Applicata all'Ingegneria 1990

M. MELE, Interazione Terreno-Struttura in Prospettiva Sismica 1990

F. CROSILLA - L. MUSSIO, Il Sistema di Posizionamento Globale Satellitare GPS 1991

M. MELE, Problemi Avanzati nella Costruzione dei Ponti 1991

B.A. SCHREFLER - A.A. CANNAROZZI, Analisi per Elementi Finiti: Modellazione Strutturale e Controllo dei Risultati 1991

F. CROSILLA - L. MUSSIO, Sistemi Informativi Territoriali: Fondamenti ed Applicazioni 1992

M. GASPARETTO - G. JUCULANO, Metodologia Statistica per il Trattamento delle Misure 1993

M.H. ALIABADI - C.A. BREBBIA - V.Z. PARTON, Static and Dynamic Fracture Mechanics 1994

F. COLLESELLI, Problemi Geotecnici Relativi alle Arginature ed alle Sponde di Fiumi e Canali 1994

F. CROSILLA - L. MUSSIO, Metodi e Procedure di Modellizzazione e Trattamento dei Dati GPS 1994

P.G. MALERBA, Monitoraggio delle Strutture dell'Ingegneria Civile 1995

A. PELLEGRINO, Interventi di Stabilizzazione dei Pendii Naturali ed Artificiali 1997

P.G. MALERBA, Analisi Limite e non Lineare di Strutture in Calcestruzzo Armato 1998

T. CRESPELLANI, Ingegneria Geotecnica nelle Aree Sismiche 1999

F. CROSILLA - L. MUSSIO, Il Rilevamento Topografico Dinamico Multisensoriale 2000

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