

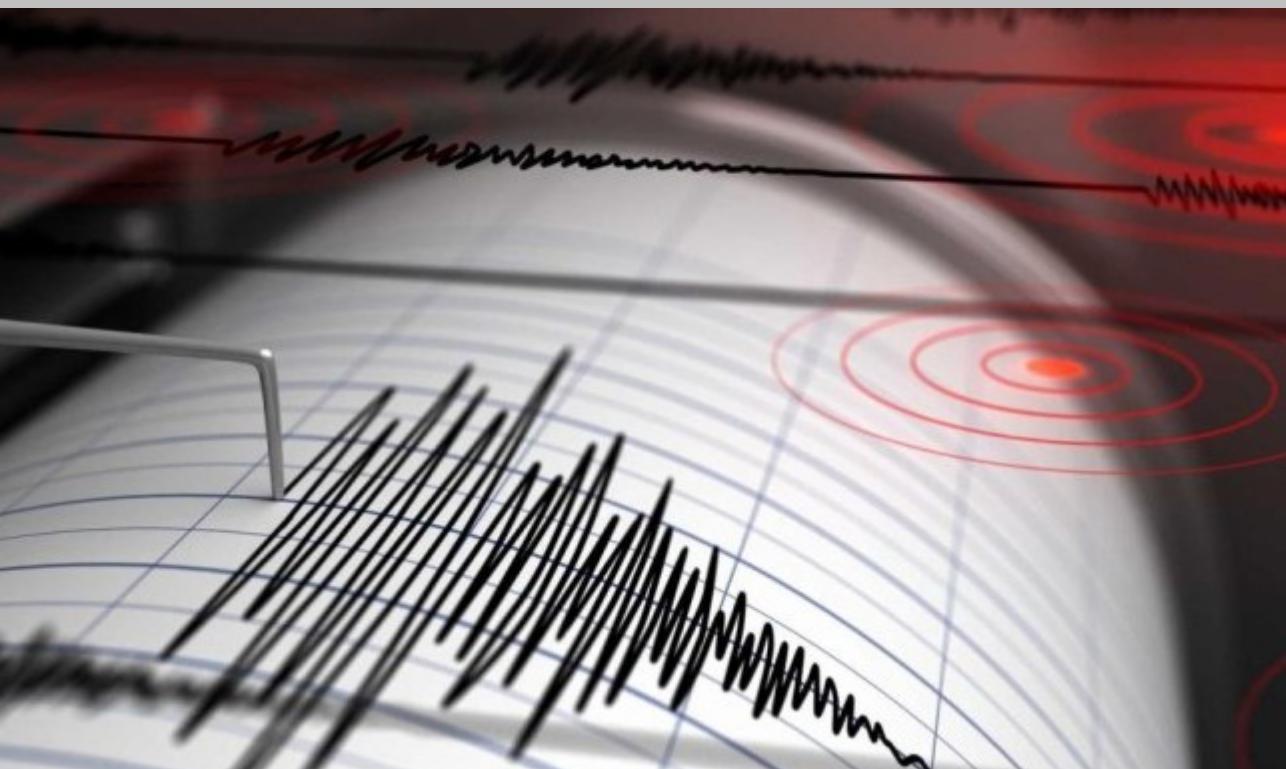


1-4 September, Crete, Greece

ICOVP 2019

14th INTERNATIONAL CONFERENCE ON VIBRATION PROBLEMS

PROGRAMME



Conference Secretariat:
Institute of Structural Analysis and Antiseismic Research
National Technical University of Athens, Greece



ICOVP 2019

14th INTERNATIONAL CONFERENCE ON VIBRATION PROBLEMS

Crete, Greece, 1 - 4 September 2019

Programme



Institute of Structural Analysis and Antiseismic Research
School of Civil Engineering
National Technical University of Athens

PROGRAMME OVERVIEW

	SUNDAY, SEPTEMBER 1
17:00 – 19:00	REGISTRATION
19:30 – 20:30	Welcome Reception : Veranda of the Creta Maris Conference Centre

DAY 1 - MONDAY, SEPTEMBER 2				
Time	Minos East	Minos North-South	Aphrodite – Artemis – Athena	Europa – Danae – Leda
8:00-9:00	REGISTRATION			
9:00-9:30	OPENING			
9:30-11:00	PLENARY LECTURES I			
11:00-11:30	Coffee Break			
	TECHNICAL SESSIONS			
11:30-13:30	MS 7 LOW FREQUENCY NOISE AND VIBRATION	MS 10 - I DYNAMIC ANALYSIS OF STRUCTURES	MS 8 VIBRATION OF COMPOSITE MECHANICAL STRUCTURES	MS 13 - I VIBRATION PROBLEMS IN SUBMERGED FLOATING TUNNEL
13:30-14:30	Lunch Break			
	TECHNICAL SESSIONS			
14:30-16:30	MS 11 - I VIBRATION EFFECTS IN NATURE AND TECHNOLOGY	MS 10 - II DYNAMIC ANALYSIS OF STRUCTURES	MS 12 - I RECENT ADVANCES IN ROTOR DYNAMICS	MS 13 - II VIBRATION PROBLEMS IN SUBMERGED FLOATING TUNNEL
16:30-17:00	Coffee Break			
	TECHNICAL SESSIONS			
17:00-19:00	MS 11 - II VIBRATION EFFECTS IN NATURE AND TECHNOLOGY	MS 1 WATER WAVE SCATTERING, GENERATION AND PROPAGATION	MS 12 - II RECENT ADVANCES IN ROTOR DYNAMICS	RS 3 DYNAMICS OF COUPLED PROBLEMS

DAY 2 - TUESDAY, SEPTEMBER 3				
Time	Minos East	Minos North-South	Aphrodite – Artemis – Athena	Europa – Danae – Leda
9:30-11:00	PLENARY LECTURES II			
11:00-11:30	Coffee Break			
11:30-13:00	TECHNICAL SESSIONS MS 9 - I FLOW INDUCED VIBRATIONS RS 20 - I VIBRATION PROBLEMS IN STRUCTURAL DYNAMICS, WAVE MECHANICS, COMPOSITE MATERIALS AND FRACTURE MECHANICS RS 19 - I VIBRATION PROBLEMS IN ENGINEERING SCIENCE MS 3 - I ADVANCES IN STRUCTURAL VIBRATIONS			
13:00-14:30	Lunch Break			
14:30-16:00	SEMI-PLENARY LECTURES	SEMI-PLENARY LECTURES	SEMI-PLENARY LECTURES	SEMI-PLENARY LECTURES
16:00-16:30	Coffee Break			
16:30-18:30	TECHNICAL SESSIONS MS 9 - II FLOW INDUCED VIBRATIONS RS 20 - II VIBRATION PROBLEMS IN STRUCTURAL DYNAMICS, WAVE MECHANICS, COMPOSITE MATERIALS AND FRACTURE MECHANICS RS 19 - II VIBRATION PROBLEMS IN ENGINEERING SCIENCE MS 3 - II ADVANCES IN STRUCTURAL VIBRATIONS			
20:30-23:30	Conference Banquet in honor of Professor Jiří Náprstek : Veranda of the Cretaquarium			

DAY 3 - WEDNESDAY, SEPTEMBER 4				
Time	Minos East	Minos North-South	Aphrodite – Artemis – Athena	Europa – Danae – Leda
9:00-10:30	TECHNICAL SESSIONS			
	RS 9 - I NONLINEAR DYNAMICS	MS 4 - I ACTIVE AND PASSIVE STRUCTURAL CONTROL SYSTEMS - SEISMIC ISOLATION	RS 1 - I COMPUTATIONAL METHODS IN VIBRATION PROBLEMS AND WAVE MECHANICS	RS 23 VIBRATIONS OF TRANSPORT SYSTEMS
10:30-11:00	Coffee Break			
11:00-13:00	TECHNICAL SESSIONS			
	RS 9 - II NONLINEAR DYNAMICS	MS 4 - II ACTIVE AND PASSIVE STRUCTURAL CONTROL SYSTEMS - SEISMIC ISOLATION	RS 1 - II COMPUTATIONAL METHODS IN VIBRATION PROBLEMS AND WAVE MECHANICS	
13:00-14:30	Lunch Break			
14:30-16:30	TECHNICAL SESSIONS			
	RS 13 SOUND AND VIBRATION	RS 15 VIBRATION CONTROL, UNCERTAINTY QUANTIFICATION AND RELIABILITY ANALYSIS OF DYNAMIC STRUCTURES		

Conference Centre Rooms

Level 0

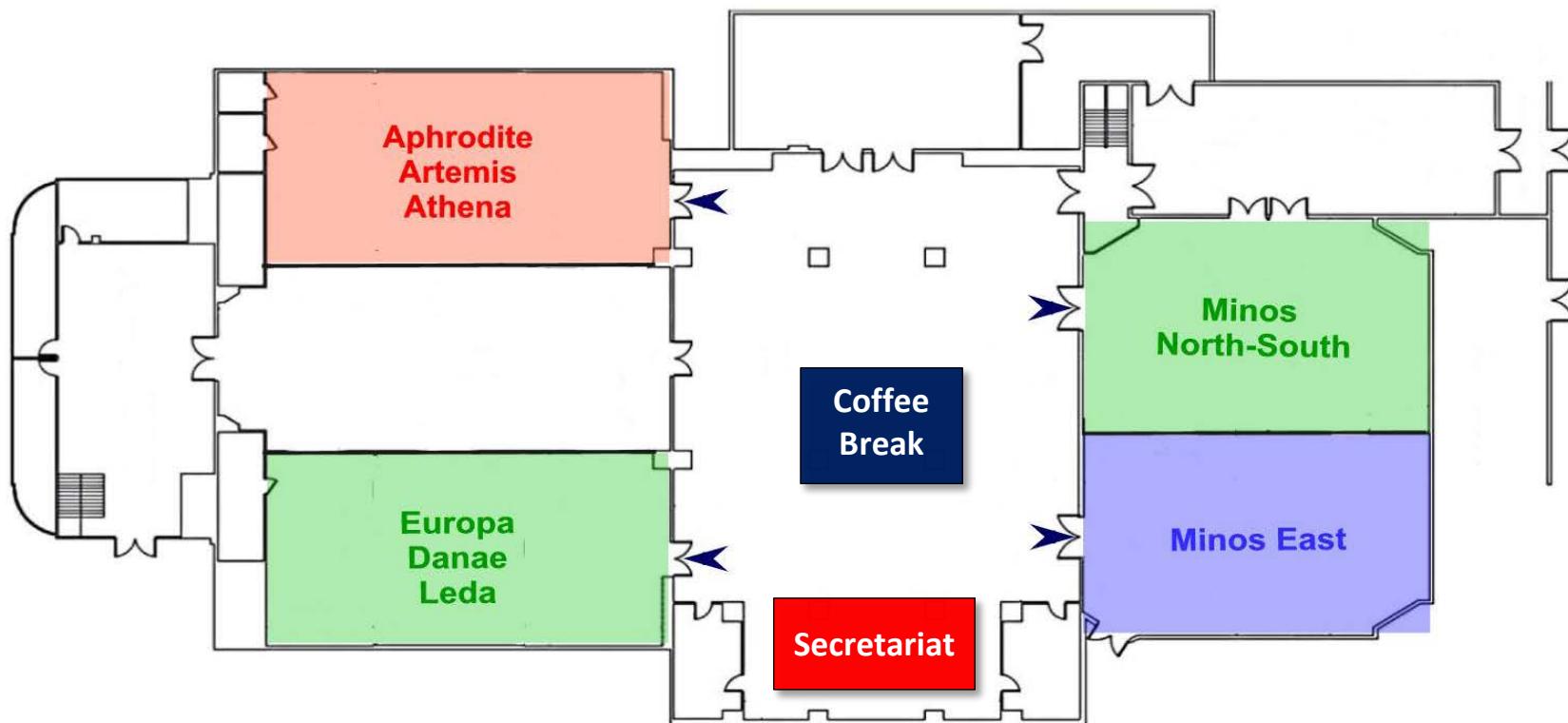


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Greetings from the Chairman

Welcome to the **14th International Conference on Vibration Problems (ICOVP 2019)**, held in Hersonissos, on the island of Crete in Greece, 1-4 September 2019.

ICOVP 2019 is the fourteenth edition of the International Conference on Vibration Problems. The first ICOVP Conference was held in 1990 at the A.C. College, Jalpaiguri, under the co-Chairmanship of two scientists, namely Professor M. M. Banerjee from the host Institution and Professor P. Biswas from the sister organization A. C. College of Commerce. The initial name of the Conference was "**International Conference on Vibration Problems of Mathematics and Physics**" and was changed to the current one at its third edition. During the last twenty-eight years, the ICOVP activities have been gaining momentum to meet the challenges of the twenty-first century, regarding the up to date engineering issues and their applications in the high-technology industries - such as high-speed spacecraft, nuclear power plants, offshore, storage and high-rise structures - where vibration has a significant impact.

The previous meetings of the ICOVP Conference series were held in A.C. College, Jalpaiguri-India (1990, 1993), University of North Bengal, India (1996), Jadavpur University, West Bengal, India (1999), Moscow, Russia (2001), Technical University of Liberec, Czech Republic (2003), İşık University, Şile, İstanbul, Turkey (2005), Bengal Engineering and Science University, Shibpur, West Bengal, India (2007), Indian Institute of Technology, Kharagpur, India (2009), Technical University of Liberec, Prague, Czech Republic (2011), Instituto Superior Técnico, Universidade Técnica de Lisboa Lisbon, Portugal (2013), Indian Institute of Technology Guwahati, India (2015), Indian Institute of Technology Guwahati, Guwahati, India and İşık University, İstanbul, Turkey (2017).

The purpose of this Conference series is to bring together scientists and young researchers with different backgrounds, actively working on vibration problems of engineering both in theoretical and applied fields, while facilitating the exchange of ideas in topics of mutual interests. We believe that the communities of Vibration Problems will benefit from their exposure to advanced computational methods and software tools, which can highly assist in tackling complex problems in dynamic and seismic analysis and design, while also giving the opportunity to the Sound and Vibration community to be exposed to very important engineering problems of great social interest.

I take this opportunity to thank my co-chair persons and ICOVP Founders Profs. Banerjee and Biswas for their invaluable efforts in accomplishing this conference. Moreover, I would like to specially thank the secretary of the conference Ms. Eva Konti for her tireless efforts and professionalism in organizing this conference, all the members of the Organizing Committee and each of you for attending it and bringing your expertise to our gathering.

You, international researchers and leading scientists from academia, have the vision, the knowledge, the wherewithal and the experience to help us pave our way into the future. You are truly our greatest asset today and tomorrow, and we could not accomplish what we do without your support and leadership. Throughout this conference, I ask you to stay engaged, keep us proactive and help us shape the future.

Welcome to Crete, the largest island of Greece and the fifth largest in the Mediterranean. Crete has a very long and rich history during several thousand years to the past, and it is nowadays characterized by its high touristic appeal owed to the island's diverse landscape as well as its unique and colorful culture. Birthplace of Zeus according to mythology, and home of the Minoan civilization, Europe's first advanced civilization. Crete presents continuous and uninterrupted habitation since the Paleolithic era.

During the three days of this event, 133 presentations will take place with 150 participants coming from 32 countries. The organizers would like to thank the authors for submitting their contributions and for their efforts to respect of the deadlines. Special thanks go to the 4 plenary and 8 semi-plenary lecturers, who bring their world recognized experience in the field of vibration problems to our gathering, to the colleagues who contributed to the organization of the 11 Minisymposia and to the Reviewers who, with

their work, contributed to the scientific quality of the conference. We want to express our gratitude to all of them and in particular, we want to thank the research students of the Institute of Structural Analysis and Antiseismic Research of the NTUA for providing assistance in the lecture rooms.

The **ICOVP 2019** Conference is supported by the National Technical University of Athens (NTUA) to which I am grateful, while the full-length papers of its Proceedings will be published by **Springer Nature** and in extension will be indexed in **SCOPUS database**. It is worth here mentioning that the Conference Banquet is dedicated to honor **Professor Jiří Naprstek** on the occasion of his Diamond Jubille birth celebration (75th birthday).

The subject of the conference and the idyllic location of the venue offer a perfect blend for scientific endeavor and recreation. Thus, we invite you to enjoy the conference and the Island of Crete and to experience an unforgettable event, enjoying the unique Greek hospitality.

Evangelos J. Sapountzakis

Chairman of ICOVP 2019

ICOVP 2019 COMMITTEES

Chairpersons



Evangelos J. Sapountzakis,
National Technical University of Athens, Greece



Murali Mohan Banerjee,
ICOVP Founder, Kolkata, India



Paritosh Biswas,
ICOVP Founder, Jalpaiguri, India



Esin Inan,
Isik University, Turkey

Organizing Committee

- I. Antoniadis, *National Technical University of Athens, Greece*
- M. Banerjee, *ICOVP Founder, Kolkata, India*
- P. Biswas, *ICOVP Founder, Jalpaiguri, India*
- E. Inan, *Isik University, Turkey*
- E. Sapountzakis, *National Technical University of Athens, Greece*
- G.Tsiatas, *University of Patras, Greece*

Steering Committee

- I. Antoniadis, *National Technical University of Athens, Greece*
- M. Banerjee, *ICOVP Founder, Kolkata, India*
- P. Biswas, *ICOVP Founder, Jalpaiguri, India*
- S. Dutta, *Indian Institute of Technology Guwahati, India*
- S. K. Dwivedy, *Indian Institute of Technology Guwahati, India*
- E. Inan, *Isik University, Turkey*
- B. Marvalova, *Technical University of Liberec, Czech Republic*
- E. Sapountzakis, *National Technical University of Athens, Greece*
- M. V. Shitikova, *Voronezh State University of Architecture and Civil Engineering, Russia*

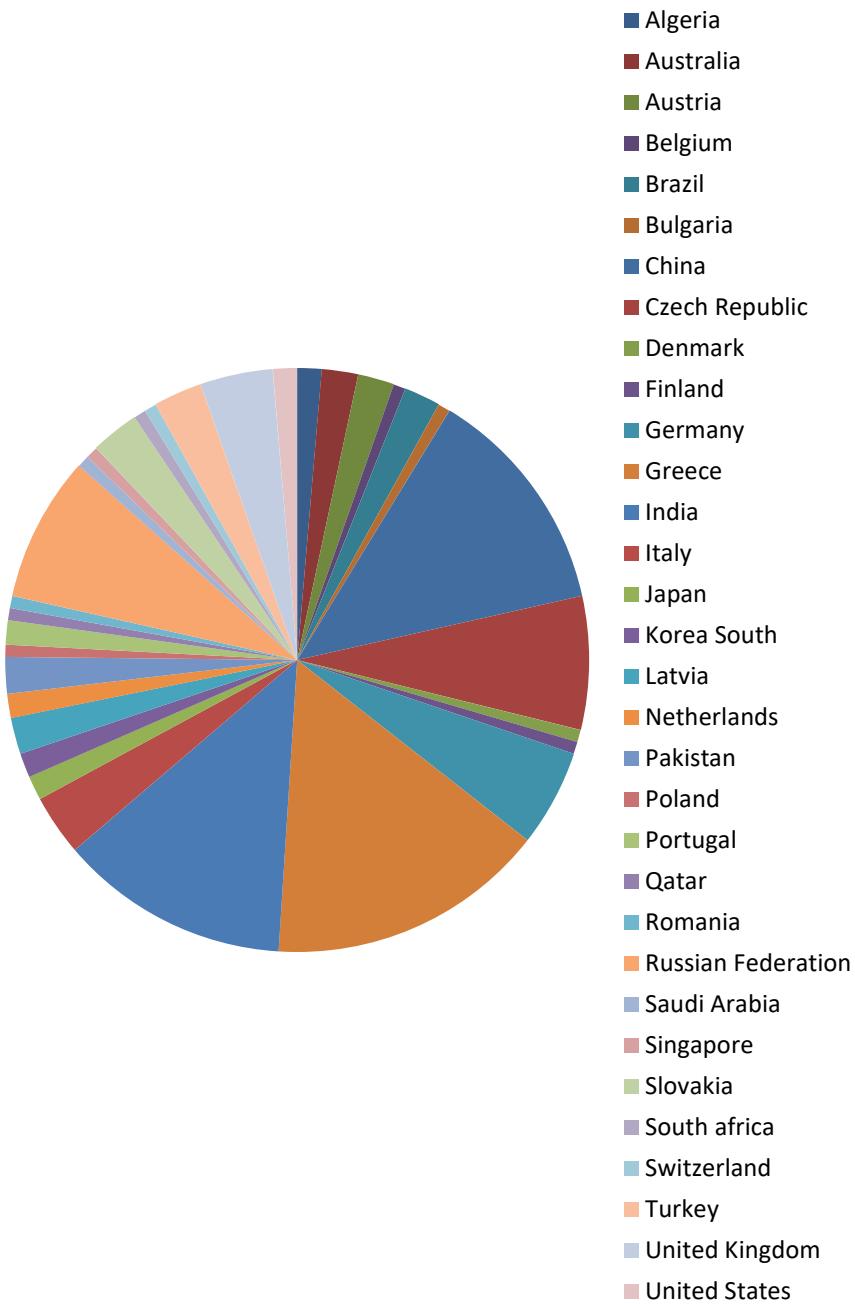
Scientific Committee

- | | |
|--------------------------------|----------------------------------|
| S. Anagnostopoulos, Greece | B. Marvalová, Czech Republic |
| S. Anand Sahu, India | S. Mehanny, Egypt |
| I. Anastasopoulos, Switzerland | A. Movchan, UK |
| K.K. Ang, Singapore | J. Murin, Slovakia |
| A. Bandyopadhyay, India | G. E. Mylonakis, UK, Greece |
| M. Banerjee, India | J. Napstek, Czech Republik |
| U. Basu, India | S. Natsiavas, Greece |
| D. Bigoni, Italy | M. Nedelcu, Romania |
| P. Biswas, India | C. Papadimitriou, Greece |
| M. Bradford, Australia | M. Papadrakakis, Greece |
| D. Camotim, Portugal | A. Papageorgiou, Greece |
| R. Cantieni, Switzerland | L. Pesek, Czech Republic |
| L. Cavalieri, Italy | I. Pscharis, Greece |
| A. Chakrabarti, India | K. Ray, India |
| S. Chakraverty, India | P.M. Reddy, India |
| E. Chatzi, Switzerland | G. Rega, Italy |
| L. Cheng, Hong Kong | M. V. Shitikova, Russia |
| F. Clementi, Italy | N. Silvestre, Portugal |
| S.K Dwivedy, India | J. Kumar Sinha, UK |
| M. Fragiadakis, Greece | S. Sorokin, Denmark |
| Ch. Gantes, Greece | A. Soroushian, Iran |
| G. Gazetas, Greece | K. Spiliopoulos, Greece |
| R. Gonçalves, Portugal | C. Spyракος, Greece |
| T. Hikihara, Japan | I. Takewaki, Japan |
| J. Horacek, Czech Republic | S. Triantafyllou, United Kingdom |
| M.I. Hussein, USA | G. Tsiatas, Greece |
| A. Kampitsis, UK | Y. Tsompanakis, Greece |
| F. Karadoğan, Turkey | D. Vamvatsikos, Greece |
| B.Karmakar, India | I. Vayas, Greece |
| J. Katsikadelis, Greece | Z. Wang, China |
| A. Kiriş, Turkey | Y. Xiang, China |
| S. Kourkoulis, Greece | Y. Xing, China |
| V. Koumousis, Greece | E. Zahariev, Bulgaria |
| N. Lagaros, Greece | |

Conference Guide

Programme Format

The Technical Programme consists of 4 plenary lectures, 8 semi-plenary lectures, 11 keynote lectures, 11 minisymposia and 8 regular sessions. In total 133 presentations will take place during the three days of the conference with 150 participants coming from 32 countries.



Plenary Lecturers



Prof. Ioannis Antoniadis

National Technical University of Athens, Greece

18421 KDAMPER: A NEW CLASS OF NEGATIVE STIFFNESS BASED SHOCK AND VIBRATION ABSORBERS

Tuesday, 9:30-11:00, Minos East



Prof. George Gazetas

National Technical University of Athens, Greece

18420 SOIL AMPLIFICATION IN THE 1985 AND 2017 MEXICO EARTHQUAKES

Monday, 9:30-11:00, Minos East



Prof. Natasha Movchan

University of Liverpool, UK

18480 LOCALISATION AND CONTROL OF WAVES IN STRUCTURED SOLIDS

Tuesday, 9:30-11:00, Minos East



Prof. Jiří Náprstek

Institute of Theoretical and Applied Mechanics CAS, Czech Republic

18425 NON-HOLONOMIC SYSTEMS IN VIEW OF HAMILTONIAN PRINCIPLE

Monday, 9:30-11:00, Minos East

Semi-Plenary Lecturers



Prof. Ioannis Anastopoulos

ETH Zurich, Switzerland

18414 DESIGN OF NEW AND RETROFIT OF EXISTING STRUCTURES MOBILIZING NONLINEAR SOIL RESPONSE

Tuesday, 14:30-16:00, Minos East



Prof. Cihan Bayındır

İstanbul Technical University, Turkey

18416 COMPUTATIONAL ANALYSIS OF THE NONLINEAR QUANTUM HARMONIC OSCILLATOR

Tuesday, 14:30-16:00, Minos North-South



Prof. Achintya Choudhury

Bharatiya Skill Development University, Jaipur, India

18423 STUDIES ON VIBRATION ANALYSIS OF ROLLING BEARINGS WITH LOCALIZED DEFECTS

Tuesday, 14:30-16:00, Aphrodite-Artemis-Athena



Prof. Mahmoud Hussein

University of Colorado Boulder, USA

18817 DISSIPATION SYNTHESIS IN METAMATERIALS BY LOCALIZED STRUCTURAL DYNAMICS

Tuesday, 14:30-16:00, Europa-Danae-Leda



Prof. Sotirios Natsiavas

Aristotle University of Thessaloniki, Greece

18588 ON THE DYNAMICS OF MECHANICAL SYSTEMS SUBJECT TO MOTION CONSTRAINTS

Tuesday, 14:30-16:00, Aphrodite-Artemis-Athena



Prof. Costas Papadimitriou

University of Thessaly, Greece

18782 BAYESIAN OPTIMAL EXPERIMENTAL DESIGN FRAMEWORK FOR DATA-DRIVEN UNCERTAINTY QUANTIFICATION IN DYNAMICAL SYSTEMS

Tuesday, 14:30-16:00, Minos East



Prof. Leonid Vaisberg

Russian Academy of Science, REC "Mekhanobr-tehnika", Russia

18662 ENERGY PERFORMANCE OF VIBRATIONAL TRANSPORTATION AND PROCESS MACHINES

Tuesday, 14:30-16:00, Europa-Danae-Leda

Keynote Lecturers

Christos-Habib T. Alimir

- 18645** FREQUENCY BASED DESIGN OF THE KDAMPER CONCEPT FOR SEISMIC ISOLATION OF BRIDGES
Wednesday, 9:00-10:30, Minos North-South

Keiko Anami

- 18475** DYNAMIC INSTABILITY OF OLDHAM RING FOR SCROLL COMPRESSORS UNDERGOING HIGH SPEED OPERATION
Tuesday, 11:30-13:00, Aphrodite-Artemis-Athena

Sudeshna Banerjea

- 18427** THE EFFECT OF POROUS CURVED BARRIER ON THE WAVES
Monday, 17:00-19:00, Minos North-South

Liborio Cavaleri

- 18701** NONLINEAR RESPONSE OF RC STRUCTURES: STATISTICAL EFFECTS OF ARTIFICIAL GROUND MOTIONS
Wednesday, 9:00-10:30, Aphrodite-Artemis-Athena

Fadi Dohnal

- 18652** ROTOR-STRUCTURE INTERACTION: COMPLEX FOUNDATION MODELS IN MADYN
Monday, 14:30-16:30, Aphrodite-Artemis-Athena

Georgios I. Florakis

- 18443** HIGHER ORDER BEAM THEORY IN LOCAL BUCKLING ANALYSIS OF LATERALLY BRACED BEAMS
Tuesday, 11:30-13:00, Europa-Danae-Leda

Jaromír Horáček

- 18567** HOW ACOUSTIC RESONANCES CAN SUPPORT SELF-SUSTAINED OSCILLATIONS OF ACOUSTIC-MECHANICAL DYNAMIC SYSTEM
Tuesday, 11:30-13:00, Minos East

Stephan Kugler

- 18444** ON THE DEFICIENCIES OF CLASSICAL THEORIES IN PREDICTING TORSIONAL FREQUENCIES OF PRISMATIC SHAFTS
Monday, 11:30-13:30, Aphrodite-Artemis-Athena

H.K. Lee

- 18660** RECENT ADVANCES IN SUBMERGED FLOATING TUNNEL SYSTEMS
Monday, 11:30-13:30, Europa-Danae-Leda

Marina V. Shitikova

- 18686** ANALYSIS OF FORCE DRIVEN VIBRATIONS OF SUSPENSION BRIDGES UNDER PRIMARY AND 2:1 INTERNAL RESONANCES
Monday, 11:30-13:30, Minos North-South

Tadeusz Tatara

- 18724** COMPUTATIONAL AND APPROXIMATE ANALYSIS OF THE IMPACT OF MINING VIBRATIONS ON PEOPLE STAYING IN BUILDINGS
Tuesday, 11:30-13:00, Minos North-South

Minisymposia

MS 1: WATER WAVE SCATTERING, GENERATION AND PROPAGATION

MS Organizer: Uma Basu

MS 1: Monday, 17:00-19:00, Minos North-South

MS 2: COMPUTATIONAL METHODS ON FLUID-STRUCTURE DYNAMICS FOR MULTISCALE PROBLEMS

MS Organizer: Andreas Kampitsis

MS 2: Tuesday, 16:30-18:30, Minos East

MS 3: ADVANCES IN STRUCTURAL VIBRATIONS

MS Organizers: Evangelos Sapountzakis, Christos H. T. Alamir

MS 3 - I: Tuesday, 11:30-13:00, Europa-Danae-Leda

MS 3 - II: Tuesday, 16:30-18:30, Europa-Danae-Leda

MS 4: ACTIVE AND PASSIVE STRUCTURAL CONTROL SYSTEMS - SEISMIC ISOLATION

MS Organizers: Evangelos Sapountzakis, Konstantinos Kapasakalis

MS 4 - I: Wednesday, 9:00-10:30, Minos North-South

MS 4 - II: Wednesday, 11:00-13:00, Minos North-South

MS 7: LOW FREQUENCY NOISE AND VIBRATION

MS Organizer: Ioannis Antoniadis

MS 7: Monday, 11:30-13:30, Minos East

MS 8: VIBRATION OF COMPOSITE MECHANICAL STRUCTURES

MS Organizers: Justin Murin, Mehdi Aminbaghai, Vladimir Kutis, Stephan Kugler

MS 8: Monday, 11:30-13:30, Aphrodite-Artemis-Athena

MS 9: FLOW INDUCED VIBRATIONS

MS Organizers: Jaromir Horacek, Ludek Pesek

MS 9 - I: Tuesday, 11:30-13:00, Minos East

MS 9 - II: Tuesday, 16:30-18:30, Minos East

MS 10: DYNAMIC ANALYSIS OF STRUCTURES

MS Organizers: Murali Mohan Banerjee, Abhijit Sarkar

MS 10 - I: Monday, 11:30-13:30, Minos North-South

MS 10 - II: Monday, 14:30-16:30, Minos North-South

MS 11: VIBRATION EFFECTS IN NATURE AND TECHNOLOGY

MS Organizer: Leonid Vaisberg

MS 11 - I: Monday, 14:30-16:30, Minos East

MS 11 - II: Monday, 17:00-19:00, Minos East

MS 12: RECENT ADVANCES IN ROTOR DYNAMICS

MS Organizers: Fadi Dohnal, Athanasios Chasalevris

MS 12 - I: Monday, 14:30-16:30, Aphrodite-Artemis-Athena

MS 12 - II: Monday, 17:00-19:00, Aphrodite-Artemis-Athena

MS 13: VIBRATION PROBLEMS IN SUBMERGED FLOATING TUNNEL S

MS Organizers: Y.Q. Xiang, H.K. Lee, Beatrice Faggiano

MS 13 - I: Monday, 11:30-13:30, Europa-Danae-Leda

MS 13 - II: Monday, 14:30-16:30, Europa-Danae-Leda

Regular Sessions

RS 1: COMPUTATIONAL METHODS IN VIBRATION PROBLEMS AND WAVE MECHANICS

RS 1 - I: Wednesday, 9:00-10:30, Aphrodite-Artemis-Athena

RS 1 - II: Wednesday, 11:00-13:00, Aphrodite-Artemis-Athena

RS 3: DYNAMICS OF COUPLED PROBLEMS

RS 3: Monday, 17:00-19:00, Europa-Danae-Leda

RS 9: NONLINEAR DYNAMICS

RS 9 - I: Wednesday, 9:00-10:30, Minos East

RS 9 - II: Wednesday, 11:00-13:00, Minos East

RS 13: SOUND AND VIBRATION

RS 13: Wednesday, 14:30-16:30, Minos East

**RS 15: VIBRATION CONTROL, UNCERTAINTY QUANTIFICATION AND RELIABILITY ANALYSIS
OF DYNAMIC STRUCTURES**

RS 15: Wednesday, 14:30-16:30, Minos North-South

RS 19: VIBRATION PROBLEMS IN ENGINEERING SCIENCE

RS 19 - I: Tuesday, 11:30-13:00, Aphrodite-Artemis-Athena

RS 19 - II: Tuesday, 16:30-18:30, Aphrodite-Artemis-Athena

**RS 20: VIBRATION PROBLEMS IN STRUCTURAL DYNAMICS, WAVE MECHANICS,
COMPOSITE MATERIALS AND FRACTURE MECHANICS**

RS 20 - I: Tuesday, 11:30-13:00, Minos North-South

RS 20 - II: Tuesday, 16:30-18:30, Minos North-South

RS 23: VIBRATIONS OF TRANSPORT SYSTEMS

RS 23: Wednesday, 9:00-10:30, Europa-Danae-Leda

Conference Venue

The Conference Venue is the **Creta Maris Beach Resort** in **Crete, Greece**. The Creta Maris Conference Centre, situated a hundred meters away from the Creta Maris Beach Resort, consists of 6.000 m², 68 conference halls and can accommodate up to 5.500 delegates.

Crete Island

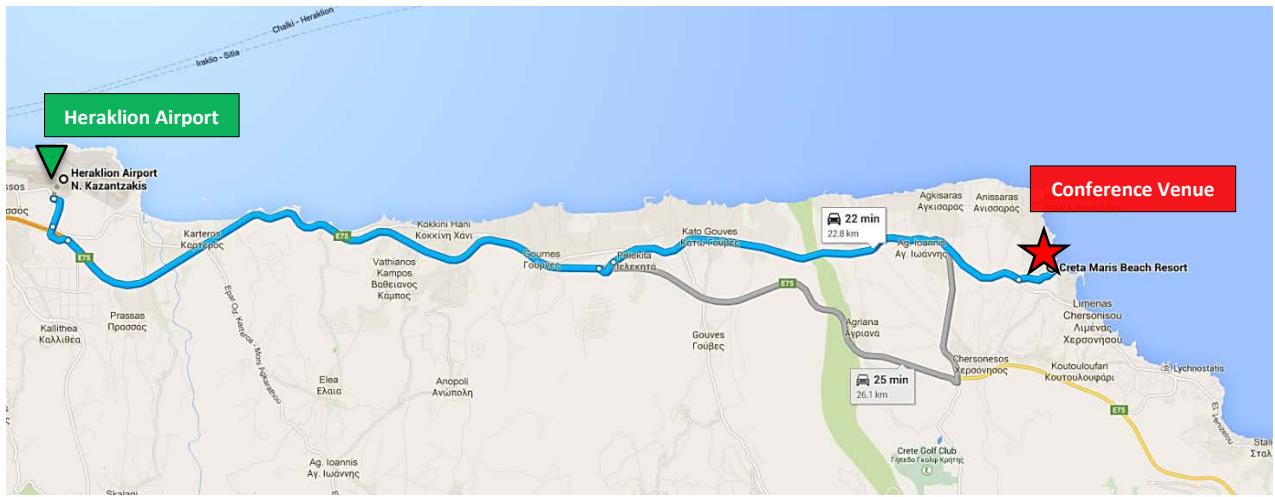


Transportation

Transfer from and to the Airport: "Nikos Kazantzakis" Heraklion International Airport is located 24 km west side of the Creta Maris Beach Resort. "Nikos Kazantzakis" Airport is linked directly with "Eleftherios Venizelos" International Airport of Athens with many flights per day (40 minutes). "Nikos Kazantzakis" Airport is also connected with regular and charter flights to 50 big cities of Europe and overseas.

Kazantzakis Airport tel. no: (+30) 2810 337 205

The route from the airport to the Conference venue by taxi takes approximately 20 minutes, while the average cost of the route is 30 €.



Getting around Crete

Heraklion to Hersonissos (26 km):

By Public Bus

Local Bus service is available from the airport or the harbour (approximately 50 minutes, cost approx. 5 Euros).

Intercity Busses (KTEL) Tel. no: (+30) 2810 246 530

By Taxi

Taxi service is available from the airport or the harbour (approximately 25 minutes, cost approx. 30 Euros).

Important telephone numbers

Emergency Number: 112

Fire Brigade: 199

Police: 100

Ambulance: 166

District Hospital Service Limenas Hersonissos: +30 2897021262

Pharmacies: 14944

Conference Information

Registration and Check in

All attendees are required to check in at the Registration Desks.

Identification Badge

Participants are required to wear badges at all times while in the Conference area.

Secretariat Timetable

Sunday September 1,	17:00 to 19:00
Monday September 2,	8:00 to 17:30
Tuesday September 3,	8:30 to 17:30
Wednesday September 4,	9:00 to 17:30

Papers Presentation – Time and Equipment

Most technical sessions will last 2 hours. Typical formats consist of six presentations of 20 minutes each or four presentations including a keynote lecture (KL) of 30 minutes duration. The allocated time for each presentation includes Q & A.

The Conference will not provide computers for presentation. All presentations will be made with the presenter's laptop computer using LCD projector. You are kindly requested to test your laptop with the projector in your session room during the break preceding your presentation.

No overhead projectors will be provided; therefore no presentations using transparencies will be possible. We strongly encourage you to have a backup of your presentation in a USB storage device in the event of your laptop has a technical problem or is incompatible with the LCD projector.

Make sure that you have the necessary cords /converters/adapters so that your laptop will work with Greek power outlets CEE 7/4, also called "Schuko" socket and the LCD projector.

Internet Access

Wireless Internet access will be available in the premises of the Conference venue.

Lunch Options

The Conference Organizers propose the following lunch options:

Snack bar buffet which will operate during lunch breaks of the Scientific Programme at the Veranda of the Creta Maris Conference Centre.

Alternatively, participants may have lunch at the restaurants or cafeterias that operate near the Conference venue.

Social Events

Welcome Reception: Sunday **September 1**, 19:30 to 20:30, Veranda of the Creta Maris Conference Centre

Conference Banquet in honor of **Professor Jiří Náprstek:** Tuesday **September 3**, 20:30, Veranda of the Cretaquarium

DAY 1 – MONDAY, SEPTEMBER 2

PLENARY LECTURES

Monday, September 2
9:30-11:00

Minos East

Chair: Evangelos J. Sapountzakis

18420 SOIL AMPLIFICATION IN THE 1985 AND 2017 MEXICO EARTHQUAKES

George Gazetas

18425 NON-HOLONOMIC SYSTEMS IN VIEW OF HAMILTONIAN PRINCIPLE

Jiří Náprstek, Cyril Fischer

11:00-11:30

Coffee Break

DAY 1 – MONDAY, SEPTEMBER 2

TECHNICAL SESSIONS

Monday, September 2 11:30-13:30	Minos East
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ICOVP MS 7: LOW FREQUENCY NOISE AND VIBRATION <i>MS Organizer:</i> Ioannis Antoniadis <i>Chair:</i> Ioannis Antoniadis	
18491 IMPLEMENTATION OF A LOW FREQUENCY ACOUSTIC ISOLATION PANEL INCORPORATING KDAMPER BASED MOUNTS <i>Andreas Paradeisiotis, Ioannis Antoniadis</i>	
18637 KDAMPER CONCEPT FOR BASE ISOLATION AND DAMPING OF HIGH-RISE BUILDING STRUCTURES <i>Konstantinos A. Kapasakalis, Ioannis A. Antoniadis, Evangelos J. Sapountzakis</i>	
18514 RESULTS FROM INFRASOUND MONITORING USING INTEGRATED SENSORS DATA BY MEANS OF A NETWORK ALONG MULTISITE POINT OVER JAPAN <i>Mario Batubara, Masa-yuki Yamamoto, Hiroaki Saito</i>	
18586 APPLICATION OF THE KDAMPING CONCEPT FOR LOW FREQUENCY SEISMIC ABSORPTION <i>Ioannis E. Sapountzakis, Ioannis A. Antoniadis</i>	
18721 WAVE PROPAGATION CONTROL IN ACOUSTIC BEAM LATTICE META-MATERIALS WITH LOCAL VISCOELASTIC RESONATORS <i>Francesca Vadalà, Andrea Bacigalupo, Marco Lepidi, Luigi Gambarotta</i>	

Monday, September 2 11:30-13:30	Minos North-South
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ICOVP MS 10 - I: DYNAMIC ANALYSIS OF STRUCTURES <i>MS Organizers:</i> Murali Mohan Banerjee, Abhijit Sarkar <i>Chair:</i> Murali Mohan Banerjee, Francesco Clementi	
18686 KEYNOTE: ANALYSIS OF FORCE DRIVEN VIBRATIONS OF SUSPENSION BRIDGES UNDER PRIMARY AND 2:1 INTERNAL RESONANCES <i>Marina V. Shitikova, Aleks L. Katembo</i>	
18678 ON THE COUPLING BETWEEN AXIAL AND TRANSVERSAL VIBRATION IN A RECTILINEAR EULER-BERNOULLI BEAM <i>Stefano Lenci, Francesco Clementi</i>	
18345 NONLINEAR VIBRATIONS OF POLYGONAL SHAPED PLATES: USE OF CONFORMAL MAPPING <i>Jayatu Kanta Bhuyan, Murali Mohan Banerjee, Jagannath Mazumdar</i>	
18397 UNDERSTANDING THE IMMINENCE OF FOREST FIRE USING LASER DOPPLER VIBROMETER <i>Asmita Banerjee, Arun Kumar Sharma, Bishakh Bhattacharya</i>	

DAY 1 – MONDAY, SEPTEMBER 2

Monday, September 2
11:30-13:30

Aphrodite-Artemis-Athena

ICOVP MS 8: VIBRATION OF COMPOSITE MECHANICAL STRUCTURES

MS Organizers: Justin Murin, Mehdi Aminbaghai, Vladimir Kutis, Stephan Kugler

Chair: Justin Murin, Stephan Kugler

- 18444** KEYNOTE: ON THE DEFICIENCIES OF CLASSICAL THEORIES IN PREDICTING TORSIONAL FREQUENCIES

OF PRISMATIC SHAFTS

Stephan Kugler, Peter A. Fotiu, Justin Murin

- 18344** NON-UNIFORM TORSIONAL EIGENMODES OF FGM BEAMS

Justin Murin, Mehdi Aminbaghai, Juraj Hrabovsky, Vladimir Kutis, Stephan Kugler, Juraj Paulech

- 18429** IDENTIFICATION OF DYNAMIC PARAMETERS OF THE ARTIFICIAL MUSCLES IN FORM OF THE NYLON SPRINGS

Vladimir Goga, Justin Murin, Martin Minar

- 18391** DYNAMIC ANALYSIS OF PIEZOELECTRIC BEAM WITH FGM CORE

Vladimir Kutis, Justin Murin, Juraj Paulech, Gabriel Galik, Vladimir Goga

- 18529** ANALYSIS OF ACTUATOR MADE OF FGM USING NEW MULTIPHYSICAL FINITE ELEMENTS

Juraj Paulech, Justin Murin, Vladimír Kutiš, Gabriel Gálík, Vladimír Goga, Tibor Sedlár

Monday, September 2
11:30-13:30

Europa-Danae-Leda

ICOVP MS 13 - I: VIBRATION PROBLEMS IN SUBMERGED FLOATING TUNNEL

MS Organizers: Y.Q. Xiang, H.K. Lee, Beatrice Faggiano

Chair: Y.Q. Xiang, Beatrice Faggiano

- 18660** KEYNOTE: RECENT ADVANCES IN SUBMERGED FLOATING TUNNEL SYSTEMS

Heungwoo Nam, Solmoi Park, Ju-Young Hwang, Hyo-Gyoung Kwak, Woo-sun Park, Hoon Sohn, H.K. Lee

- 18764** PRELIMINARY STUDY ON THE BEHAVIOUR OF THE SFT QIANDAO PROTOTYPE AGAINST EXPLOSIONS AND IMPACTS

Beatrice Faggiano, Giacomo Iovane, Ivano M. Toscano, Federico M. Mazzolani, Raffaele Landolfo

- 18463** PRELIMINARY ANALYSIS ON VIBRATION PROBLEMS OF SUBMERGED FLOATING TUNNEL AND MODEL TEST DESIGN

Heng Lin, Yiqiang Xiang, Zhenyang Chen, Bing Bai

- 18659** CONSIDERATIONS ON THE BEHAVIOR OF SUBMERGED FLOATING TUNNEL MODULE DURING IMMERSING STAGE

Byeongmoo Jin, Jechun Kim

13:30-14:30

Lunch Break

DAY 1 – MONDAY, SEPTEMBER 2

TECHNICAL SESSIONS

Monday, September 2 14:30-16:30	Minos East
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ICOVP MS 11 - I: VIBRATION EFFECTS IN NATURE AND TECHNOLOGY

MS Organizer: Leonid Vaisberg

Chair: Grigory Panovko

- 18538** VIBRATORY MATERIAL FEED INTO SEPARATOR WITH MAGNETIC FIELD
Ivan Demidov, Leonid Vaisberg

- 18471** TO THE ISSUE OF CONTROL RESONANT OSCILLATIONS OF A VIBRATING MACHINE WITH TWO SELF-SYNCHRONIZING INERTIAL EXCITERS

Alexander Gouskov, Grigory Panovko, Alexander Shokhin

- 18532** ON A MODEL OF INTERACTION OF A VIBRATORY JAW CRUSHER'S WORKING BODIES WITH THE PROCESSED MEDIUM

Alexander Shokhin, Grigory Panovko, Alexander Gouskov, Andrey Nikiforov

- 18555** NONLINEAR DYNAMICS OF A JAW CRUSHER TAKING INTO ACCOUNT THE INTERACTION WITH THE ROCK

Grigory Altshul, Alexander Gouskov, Grigory Panovko

Monday, September 2 14:30-16:30	Minos North-South
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ICOVP MS 10 - II: DYNAMIC ANALYSIS OF STRUCTURES

MS Organizers: Murali Mohan Banerjee, Abhijit Sarkar

Chair: Murali Mohan Banerjee, Abhijit Sarkar

- 18396** NATURAL FREQUENCIES OF ROTATING CANTILEVER PLATES
A. Prabakaran, Abhijit Sarkar

- 18535** ANALYSIS OF INTERNAL RESONANCES IN NONLINEAR FRACTIONALLY DAMPED PLATES
Marina Shitikova, Elena Osipova

- 18401** DYNAMIC ANALYSIS OF A TRUNCATED DOME PLACED ON AN ELLIPTIC BASE
Jayatu Kanta Bhuyan, J. Mazumdar, Murali Mohan Banerjee

Monday, September 2 14:30-16:30	Aphrodite-Artemis-Athena
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ICOVP MS 12 - I: RECENT ADVANCES IN ROTOR DYNAMICS

MS Organizers: Fadi Dohnal, Athanasios Chasalevris

Chair: Fadi Dohnal, Athanasios Chasalevris

- 18652** KEYNOTE: ROTOR-STRUCTURE INTERACTION: COMPLEX FOUNDATION MODELS IN MADYN
Fadi Dohnal, Athanasios Chasalevris, Heinz-Dieter Klement

- 18369** CRITICAL SPEED ANALYSIS AND RESONANCE MARGIN PROMOTING FOR ONE HELIUM TURBINE ROTOR

Bin Gao, Jingxuan Zhang, Dayi Zhang, Yifei Dou

DAY 1 – MONDAY, SEPTEMBER 2

- 18372** STIFFNESS MODELING FOR THE CURVIC COUPLING CONSIDERING CONTACT DETAILS
Cheng Yang, Dayi Zhang, Yifei Dou, Jie Hong

- 18473** IMPLEMENTATION OF ISO GUIDE TO THE EXPRESSION OF UNCERTAINTY IN MEASUREMENT (ISO-GUM) TO ROTATIONAL INERTIA DETERMINATION OF A SMALL WIND TURBINE BY ACCELERATION-DECELERATION METHOD

Raphael Ugolini Santana, Marcus Vinicius Girão de Moraes, Alberto Carlos Guimarães Castro Diniz

- 18573** COMBINED PAD AND PIVOT ELASTICITY AND ITS IMPACT ON DYNAMIC COEFFICIENTS OF TILTING - PAD JOURNAL BEARINGS

Thomas Hagemann, Daniel Vetter, Philipp Zemella, Hubert Schwarze

Monday, September 2
14:30-16:30

Europa-Danae-Leda

ICOVP MS 13 - II: VIBRATION PROBLEMS IN SUBMERGED FLOATING TUNNEL

MS Organizers: Y.Q. Xiang, H.K. Lee, Beatrice Faggiano

Chair: H.K. Lee, Beatrice Faggiano

- 18664** VIBRATION BEHAVIOR ANALYSIS OF ANCHOR CABLES IN SUBMERGED FLOATING TUNNEL AND IT'S APPLICATION

Yiqiang Xiang, Keqian Zhang

- 18464** METHODS FOR ANALYZING SEISMIC RESPONSE OF SUBMERGED FLOATING TUNNEL AND RESEARCH DEVELOPMENT

Yunshen Yang, Yiqiang Xiang, Bing Bai

- 18759** HYDRODYNAMIC RESPONSE OF SUBMERGED FLOATING TUNNEL IN COMBINED WAVE-CURRENT FLOWS

Xuexue Chen, Lisanne Drost, Dirk Jan Peters

- 18466** THE SPATIAL ANALYTICAL METHOD FOR THE DYNAMIC RESPONSE OF SUBMERGED FLOATING TUNNEL WITH TENSION LEG UNDER VEHICLE LOAD

Zhuangpeng Yi, Donghuang Yan, Youyi Zeng

- 18581** DESIGN ANALYSIS AND VALIDATION OF THE SUBMERGED FLOATING TUBE BRIDGE OVER THE BJØRNESJØ

Arianna Minoretti, Xu Xiang, Mathias Eidem, Jungao Wang, Kjersti Dunham

16:30-17:00

Coffee Break

DAY 1 – MONDAY, SEPTEMBER 2

TECHNICAL SESSIONS

Monday, September 2 17:00-19:00	Minos East
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ICOVP MS 11 - II: VIBRATION EFFECTS IN NATURE AND TECHNOLOGY

MS Organizer: Leonid Vaisberg

Chair: Grigory Panovko

- 18325** PROPERTIES OF VIBRATION FIELDS IN A TWO-DIMENSIONAL LATTICE STRUCTURE COLLIDING WITH AN OBSTACLE
Vitaly Krupenin, Vladimir Astashev

- 19035** EXPERIMENTS ON OSCILLATION CONTROL OF A CONTINUUM SOFT ROBOTIC MANIPULATOR
João Reis, Mariangela Manti, Egidio Falotico, Cecilia Laschi

- 18336** THE STATIONARY STATE OF THE GRANULAR MATERIAL UNDER THE ACTION OF INTENSE VIBRATION AND GRAVITY
Eugen Kremer

Monday, September 2 17:00-19:00	Minos North-South
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ICOVP MS 1: WATER WAVE SCATTERING, GENERATION AND PROPAGATION

MS Organizer: Uma Basu

Chair: Uma Basu, Sudeshna Banerjea

- 18427** KEYNOTE: THE EFFECT OF POROUS CURVED BARRIER ON THE WAVES
Dibakar Mondal, Sudeshna Banerjea

- 18531** INTERFACE WAVE DIFFRACTION BY A PERMEABLE THIN BARRIER
Uma Basu, Sandip Paul, Soumen De

- 18436** SCATTERING OF WATER WAVES BY A CIRCULAR TRENCH
Piyali Kundu, Rumpa Chakraborty, Sudeshna Banerjea

- 18474** PROPAGATION OF WAVES IN STENTED ARTERIES: 3D AND 1D MODELS
Sara Frecentese

Monday, September 2 17:00-19:00	Aphrodite-Artemis-Athena
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ICOVP MS 12 - II: RECENT ADVANCES IN ROTOR DYNAMICS

MS Organizers: Fadi Dohnal, Athanasios Chasalevris

Chair: Fadi Dohnal, Athanasios Chasalevris

- 19255** NONLINEAR STABILITY OF TURBINE AND GENERATOR ROTORS APPLYING HOPF BIFURCATION THEORY
Athanasios Chasalevris

- 18481** ROBUST DESIGN METHOD FOR DYNAMICS OF HIGH-SPEED ROTOR SYSTEM WITH INTERFACE
Jie Hong, ZhiHong Song, YanHong Ma, ZhiMing Su

DAY 1 – MONDAY, SEPTEMBER 2

- 18498** ROTOR CONNECTION STRUCTURE INTERFACE DAMAGE CONTROL AND ROBUST DESIGN METHOD FOR ITS MECHANICAL PROPERTIES
Chao Li, Binglong Lei, Jing Tian, Yanhong Ma, Jie Hong

- 18499** ROTATIONAL EXCITATION DYNAMICAL MODEL AND MICRO-VIBRATION CHARACTERISTICS OF MOMENTUM WHEEL
YanHong Ma, ShanShan Liu, Hong Wang, Jie Hong

- 18574** VALIDATION OF LINEAR ROTORDYNAMIC ANALYSES OF ROTORS EQUIPPED WITH TITLING -PAD JOURNAL BEARINGS USING PERTURBATION THEORY OF HIGHER ORDER
Daniel Vetter, Thomas Hagemann, Hubert Schwarze

- 18635** DYNAMICS OF MULTIBODY MECHANICAL SYSTEMS SUBJECT TO A FRICTIONAL IMPACT BASED ON A BOUNDARY LAYER THEORY
Sotirios Natsiavas, Elias Paraskevopoulos

Monday, September 2 17:00-19:00	Europa-Danae-Leda
ICOVP RS 3: DYNAMICS OF COUPLED PROBLEMS	
Chair: Nezih Topaloglu	
18438 AXIAL AND TRANSVERSE VIBRATION OF A CANTILEVER BEAM ENERGY HARVESTER WITH A TIP MASS WITH AXIAL AND TRANSVERSE ECCENTRICITY <i>Seyda Ertarla, Cevat Volkan Karadag, Nezih Topaloglu</i>	
18699 THERMOELASTIC LARGE AMPLITUDE VIBRATIONS OF BI-MATERIAL BEAMS <i>Emil Manoach, Simona Doneva</i>	
18646 MODELLING AND OPTIMIZATION OF A FLOW INDUCED PIEZOELECTRIC VIBRATION-BASED ENERGY HARVESTING STRUCTURE <i>Mengsi Li, Dunant Halim, Guangcheng Zhang, Wei Sun, Jiawa Lu</i>	
18777 NUMERICAL SIMULATION OF A SINGLE MODE PANEL FLUTTER UNDER DIFFERENT DISTURBANCES <i>Anastasia Shishaeva, Vasily Vedeneev, Gennady Sushko, Andrey Aksenov</i>	

DAY 2 – TUESDAY, SEPTEMBER 3

PLENARY LECTURES

Tuesday, September 3 **Minos East**
9:30-11:00

Chair: Jiří Náprstek, Ioannis A. Antoniadis

18480 LOCALISATION AND CONTROL OF WAVES IN STRUCTURED SOLIDS
Natasha V. Movchan

18421 KDAMPER: A NEW CLASS OF NEGATIVE STIFFNESS BASED SHOCK AND VIBRATION ABSORBERS
Ioannis A. Antoniadis

11:00-11:30
Coffee Break

DAY 2 – TUESDAY, SEPTEMBER 3

TECHNICAL SESSIONS

Tuesday, September 3 11:30-13:00	Minos East
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ICOVP MS 9 - I: FLOW INDUCED VIBRATIONS

MS Organizers: Jaromir Horacek, Ludek Pesek

Chair: Jaromir Horacek, Ludek Pesek

- 18567 KEYNOTE: HOW ACOUSTIC RESONANCES CAN SUPPORT SELF-SUSTAINED OSCILLATIONS OF ACOUSTIC-MECHANICAL DYNAMIC SYSTEM**

Jaromír Horáček, Vojtěch Radolf, Anne-Maria Laukkonen

- 18453 SELF-EXCITED VIBRATIONS OF BLADED WHEEL ANALYTICAL MODEL WITH NOZZLE EXCITATION AND DRY FRICTION DAMPING**

Pavel Šnábl, Ladislav Püst, Luděk Pešek

- 18497 A HYBRID INCOMPRESSIBLE BOUNDARY ELEMENT BASED REDUCED ORDERED AEROELASTIC MODEL FOR FAST AEROELSTIC SIMULATIONS FOR FLEXIBLE WING AND TURBOMACHINERY BLADE CASCADE**

Chandra Shekhar Prasad, Ludek Pesek

- 18549 THE FLOW-INDUCED VIBRATIONS OF VOCAL FOLDS APPROXIMATED BY THE FINITE ELEMENT METHOD**

Jan Valášek, Petr Sváček, Jaromír Horáček

Tuesday, September 3 11:30-13:00	Minos North-South
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ICOVP RS 20 - I: VIBRATION PROBLEMS IN STRUCTURAL DYNAMICS, WAVE MECHANICS, COMPOSITE MATERIALS AND FRACTURE MECHANICS

Chair: Tadeusz Tatara, Pavel Polach

- 18724 KEYNOTE: COMPUTATIONAL AND APPROXIMATE ANALYSIS OF THE IMPACT OF MINING VIBRATIONS ON PEOPLE STAYING IN BUILDINGS**

Tadeusz Tatara, Małgorzata Fedorczak-Cisak, Alicja Kowalska-Koczwara, Filip Pachla

- 18650 ANALYSIS AND OPTIMIZATION OF DUST CONTROL HOPPER SYSTEM**

Ivo Vaicis, Alexander Janushevskis, Ilmars Viksne, Janis Auzins

- 18598 FOCUS ON POINT-MASS FIBRE MODELLING IN THE MODEL OF A SIMPLE LABORATORY MECHANICAL SYSTEM**

Pavel Polach, Michal Hajžman

- 18534 AN EXPERIMENTAL INVESTIGATION TO STUDY THE EFFECT OF FIN DENSITY AND VOID FRACTION ON FLUID ELASTIC INSTABILITY OF FINNED TUBE ARRAYS EXPOSED TO AIR-WATER CROSS FLOW**

Sandeep Rangrao Desai, Dr. S. Pavitran

DAY 2 – TUESDAY, SEPTEMBER 3

Tuesday, September 3
11:30-13:00

Aphrodite-Artemis-Athena

ICOVP RS 19 - I: VIBRATION PROBLEMS IN ENGINEERING SCIENCE

Chair: Keiko Anami, Dimitrios Chronopoulos

- 18475** KEYNOTE: DYNAMIC INSTABILITY OF OLDHAM RING FOR SCROLL COMPRESSORS UNDERGOING HIGH SPEED OPERATION

Keiko Anami, Takuya Onishi, Tatsuya Oku

- 19020** TOWARDS OPTIMAL DESIGN OF RAINBOW METAMATERIALS

Han Meng, Dimitrios Chronopoulos, Adriano Fabro

- 18484** DYNAMIC ANALYSIS OF COMPOSITE CURVED BEAMS WITH INTERMEDIATE DIAPHRAGMS

Ioannis Tsipitsis, Olga Sapountzaki

- 18734** EXPERIMENTAL AND NUMERICAL ANALYSIS OF THE NONLINEAR COUPLED AXIAL-TORSIONAL VIBRATIONS OF A DRILL STRING

Daniel Lobo, Thiago Ritto, Daniel Castello

Tuesday, September 3
11:30-13:00

Europa-Danae-Leda

ICOVP MS 3 - I: ADVANCES IN STRUCTURAL VIBRATIONS

MS Organizers: Evangelos Sapountzakis, Christos H. T. Alamir

Chair: Andreas E. Kampitsis, Mihai Nedelcu

- 18443** KEYNOTE: HIGHER ORDER BEAM THEORY IN LOCAL BUCKLING ANALYSIS OF LATERALLY BRACED BEAMS

Amalia K. Argyridi, Georgios I. Florakis, Evangelos J. Sapountzakis

- 18684** GBT-BASED VIBRATION ANALYSIS OF THIN-WALLED CONICAL SHELLS SUBJECTED TO AXIAL COMPRESSION

Mihai Nedelcu

- 18717** ASSESSMENT OF HIGH-SPEED TRAIN INDUCED VIBRATIONS USING EFFICIENT NUMERICAL MODELS

Alexandros Lyratzakis, Yiannis Tsompanakis, Prodromos N. Psarropoulos

13:00-14:30

Lunch Break

DAY 2 – TUESDAY, SEPTEMBER 3

SEMI-PLENARY LECTURES

Tuesday, September 3 14:30-16:00	Minos East
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Chair: George Gazetas

18414 DESIGN OF NEW AND RETROFIT OF EXISTING STRUCTURES MOBILIZING NONLINEAR SOIL RESPONSE

Ioannis Anastasopoulos

18782 BAYESIAN OPTIMAL EXPERIMENTAL DESIGN FRAMEWORK FOR DATA-DRIVEN UNCERTAINTY QUANTIFICATION IN DYNAMICAL SYSTEMS

Costas Papadimitriou

Tuesday, September 3 14:30-16:00	Minos North-South
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Chair: Natasha V. Movchan

18416 COMPUTATIONAL ANALYSIS OF THE NONLINEAR QUANTUM HARMONIC OSCILLATOR

Cihan Bayindir

Tuesday, September 3 14:30-16:00	Aphrodite-Artemis-Athena
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Chair: Murali Mohan Banerjee

18588 ON THE DYNAMICS OF MECHANICAL SYSTEMS SUBJECT TO MOTION CONSTRAINTS

Sotirios Natsiavas, Nikolaos Potosakis, Elias Paraskevopoulos

18423 STUDIES ON VIBRATION ANALYSIS OF ROLLING BEARINGS WITH LOCALIZED DEFECTS

Achintya Choudhury

Tuesday, September 3 14:30-16:00	Europa-Danae-Leda
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Chair: Paritosh Biswas

18662 ENERGY PERFORMANCE OF VIBRATIONAL TRANSPORTATION AND PROCESS MACHINES

I.I. Blekhman, L.I. Blekhman, L.A. Vaisberg, V.B. Vasilkov

18817 DISSIPATION SYNTHESIS IN METAMATERIALS BY LOCALIZED STRUCTURAL DYNAMICS

Clémence L. Bacquet, Mahmoud I. Hussein

16:00-16:30

Coffee Break

DAY 2 – TUESDAY, SEPTEMBER 3

TECHNICAL SESSIONS

Tuesday, September 3 16:30-18:30	Minos East
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ICOVP MS 9 - II: FLOW INDUCED VIBRATIONS

MS Organizers: Jaromir Horacek, Ludek Pesek

Chair: Jaromir Horacek, Andreas Kampitsis

- 18592** FLUTTER PROBLEMS OF AIRCRAFT WITH UNCONVENTIONAL WING STRUCTURE
Jiri Cecrdle, Ondrej Vich

- 18810** DISCONTINUOUS GALERKIN METHOD FOR THE SOLUTION OF FLUID STRUCTURE INTERACTION PROBLEMS WITH APPLICATIONS TO THE VOCAL FOLDS VIBRATION

Monika Balázsová, Miloslav Feistauer, Jaromír Horáček, Martin Hadrava, Adam Kosík

ICOVP MS 2: COMPUTATIONAL METHODS ON FLUID-STRUCTURE DYNAMICS FOR MULTISCALE PROBLEMS

MS Organizer: Andreas Kampitsis

- 18411** FREE VIBRATION ANALYSIS OF DUAL MATERIAL INFLATED TORUS WITH ACOUSTIC-STRUCTURE INTERACTION
Arun Kumar Sharma, Manya Singh, Bishakh Bhattacharya

- 18619** GRAVITY-DRIVEN VISCOUS FINGERING IN POROUS MEDIA

Andreas Kampitsis, Pablo Salinas, Christopher Pain, Ann Muggeridge, Matthew Jackson

Tuesday, September 3 16:30-18:30	Minos North-South
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ICOVP RS 20 - II: VIBRATION PROBLEMS IN STRUCTURAL DYNAMICS, WAVE MECHANICS, COMPOSITE MATERIALS AND FRACTURE MECHANICS

Chair: Ioannis Anastopoulos

- 18486** EFFECT OF LOCAL GEAR TOOTH FAILURES ON GEAR MESH STIFFNESS AND VIBRATION RESPONSE OF A SINGLE-STAGE SPUR GEAR PAIR
Mishra Onkareshwar, Inturi Vamsi, Simha Podicheti Rajendra, Pavan Kumar Penumakala, Geetha Rajasekharan Sabareesh

- 18500** LONG WAVE MOTION IN PRE-STRESS LAYERED MEDIA

Maha M. Helmi, Graham A. Rogerson

- 18519** IMPACT OF BIO-INSPIRED STRUCTURAL IRREGULARITIES ON PLATE EIGENFREQUENCIES
Simone Andresen

- 18525** CONCEPTUAL DESIGN OF HAMMER HANDLE SHOCK ABSORBANCE MEASURING MACHINE
Hrayr Darbinyan

- 18404** INVESTIGATION OF CRACK DETECTION TECHNIQUE IN A ROTORDYNAMIC SYSTEM BY VIBRATION MONITORING

T. Jagadeesha, Vishal Salunkhe, Ramchandra Desavale, Pooja Patil, Mahadev Kumbhar, A. R. Koli

DAY 2 – TUESDAY, SEPTEMBER 3

Tuesday, September 3 16:30-18:30	Aphrodite-Artemis-Athena
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ICOVP RS 19 - II: VIBRATION PROBLEMS IN ENGINEERING SCIENCE

Chair: Costas Papadimitriou, Paritosh Biswas

- 18342** A REVIEW ON USE OF COMPLEX VARIABLES AND CONFORMAL MAPPING FOR ELASTIC PLATE PROBLEMS- APPLICATION TO BUCKLING OF SANDWICH PLATES

Paritosh Biswas

- 18626** DIESEL ENGINES VIBRATION ANALYSIS MONITORING

Suzana Lampreia, Valter Vairinhos, Vitor Lobo

- 18720** FREQUENCY CHARACTERISTICS OF IN CYLINDER PRESSURE OF A GASOLINE ENGINE

S. Narayan, Sahil Sharma

- 18769** A NEW METHOD FOR MEDICAL IMAGE ARCHIVAL BASED ON CHAOTIC MAPS

Ismail Burak Parlak

- 18795** ACTIVE VIBRATION ISOLATION SYSTEM FOR DRONE CAMERAS

Mohit Verma, Christophe Collette

Tuesday, September 3 16:30-18:30	Europa-Danae-Leda
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ICOVP MS 3 - II: ADVANCES IN STRUCTURAL VIBRATIONS

MS Organizers: Evangelos Sapountzakis, Christos H. T. Alamir

Chair: Mark Bradford, Christos H. T. Alamir

- 18693** RESPONSE OF STEEL-TIMBER COMPOSITE FLOORS TO HUMAN-INDUCED VIBRATIONS

Amir Hassanieh, Mark Bradford, Hamid Valipour

- 18740** CHARACTERIZATION AND VALIDATION OF SHOCK ABSORBING HYPERELASTIC MATERIAL USING ANALYTICAL AND EXPERIMENTAL METHODS

Dimitrios Giagopoulos, Alexandros Arailopoulos, Iraklis Chatziparasidis

- 18528** ANALYSIS OF THE SKELETON SLED SLIDING MOTION INDUCED VIBRATIONS WITH DIFFERENT RUNNER STIFFNESS'S ON AN INCLINED ICE TRACK

Martins Irbe, Karlis Agris Gross, Janis Viba, Marina Cerpinska

- 18656** IMPLEMENTATION OF THE K DAMPER CONCEPT FOR SEISMIC PROTECTION OF BRIDGES

Konstantinos A. Kapasakalis, Ioannis A. Antoniadis, Anna E. Sapountzaki

- 18738** HIGHER ORDER BEAM THEORY IN LINEAR ANALYSIS OF BEAMS – AXIAL MODES OF ARBITRARY CROSS SECTIONS

Amalia Argyridi, Zinon Chatzopoulos, Evangelos Sapountzakis

DAY 3 – WEDNESDAY, SEPTEMBER 4

TECHNICAL SESSIONS

Wednesday, September 4
9:00-10:30

Minos East

ICOVP RS 9 - I: NONLINEAR DYNAMICS

Chair: Davide Bigoni

- 18680** THE DYNAMICS OF AN ELASTIC ROD SUBJECT TO A CONFIGURATIONAL OR TO A FOLLOWER FORCE
Davide Bigoni

- 18357** BRIEF REVIEW ON THE USE OF COMPLEX VARIABLES AND CONFORMAL MAPPING FOR ELASTIC PLATE PROBLEMS-APPLICATION TO BUCKLING OF SANDWICH PLATES
Paritosh Biswas, Bapi Karmakar

- 18731** NONLINEAR COUPLED FLEXURAL-TORSIONAL VIBRATIONS OF FLEXIBLE BEAM
Sergey Voronov, Ivan Pleshcheev

- 18744** MODELING NONLINEAR DYNAMICS OF POST BUCKLED FLEXIBLE INVERTED PENDULUM
Vishal Vyas, Prasanna Gandhi

Wednesday, September 4
9:00-10:30

Minos North-South

ICOVP MS 4 - I: ACTIVE AND PASSIVE STRUCTURAL CONTROL SYSTEMS - SEISMIC ISOLATION

MS Organizers: Evangelos Sapountzakis, Konstantinos Kapasakalis

Chair: Sotirios Natsiavas, Konstantinos Kapasakalis

- 18645** KEYNOTE: FREQUENCY BASED DESIGN OF THE KDAMPER CONCEPT FOR SEISMIC ISOLATION OF BRIDGES
Konstantinos A. Kapasakalis, Christos-Habib T. Alamir, Ioannis A. Antoniadis, Evangelos J. Sapountzakis

- 18394** THERMOELASTIC RESPONSE ANALYSIS OF A SHAPE MEMORY ALLOY WIRE EMBEDDED ACTIVE HYBRID BIMORPH COMPOSITE
Rupal Srivastava, Bishakh Bhattacharya

- 18502** ON THE NUMERICAL MODELING OF POROELASTIC MATERIALS IN ACOUSTIC ANALYSIS
Fabian Duvigneau, Maria Gavila Lloret

- 18571** SEISMIC ISOLATION WITH HELP OF MULTILAYERED RUBBER-METAL PACKAGE
Svetlana Polukoshko, Andris Martinovs

DAY 3 – WEDNESDAY, SEPTEMBER 4

Wednesday, September 4
9:00-10:30

Aphrodite-Artemis-Athena

ICOVP RS 1 - I: COMPUTATIONAL METHODS IN VIBRATION PROBLEMS AND WAVE MECHANICS

Chair: Liborio Cavalieri, Konstantin Zloshchastiev

- 18701 KEYNOTE: NONLINEAR RESPONSE OF RC STRUCTURES: STATISTICAL EFFECTS OF ARTIFICIAL GROUND MOTIONS**

Francesco Basone, Liborio Cavalieri, Marco Filippo Ferotto

- 18440 NONLINEAR ANALYSIS OF SHAPE MEMORY ALLOY CURVED BEAMS UNDER A CENTRAL CONCENTRATED LOAD**

George Tsiatas, Ioannis Tsipitsis, Antonis Siokas

- 18395 WAVE EQUATIONS WITH LOGARITHMIC NONLINEARITY AND THEIR APPLICATIONS IN ACOUSTICS AND VOLCANOLOGY**

Konstantin Zloshchastiev

- 18544 SIMULATIVE STUDY ON EFFECTS OF NUMERICAL SOLUTION AND CONTACT PARAMETERS OF DIRECT TIME INTEGRATION METHODS TOWARDS STICK-SLIP RELATED DISK BRAKE VIBRATIONS**

Severin Huemer-Kals, Lukas Zachbauer, Manuel Pürscher, Peter Fischer

Wednesday, September 4
9:00-10:30

Europa-Danae-Leda

ICOVP RS 23: VIBRATIONS OF TRANSPORT SYSTEMS

Chair: Ludek Pesek

- 18373 OBSERVATIONS OF NONSTATIONARY GAUSSIAN VIBRATION AT THE WHEEL-RAIL INTERFACE**

Adam Wasenczuk

- 18450 ANALYSIS OF DISK BRAKE CREEP GROAN VIBRATIONS AT AUTOMOBILE CHASSIS FRONT CORNER LEVEL USING HIGH-SPEED RECORDINGS AND DIGITAL IMAGE PROCESSING**

Manuel Pürscher, Peter Fischer

- 18507 MATHEMATICAL MODELING OF METRO TRAIN INDUCED VIBRATIONS USING FINITE ELEMENT METHOD**

Naveen Kumar Kedia, Anil Kumar, Yogendra Singh

- 18713 MODELING AND ANALYSIS OF PASSIVE SUSPENSION SYSTEM USING HALF CAR MODEL BASED ON HYBRID SHOCK ABSORBER MODEL**

Vijay Barethiye, Goutam Pohit, Anirban Mitra

- 18714 NEW APPROACHES FOR DESIGN AND EXPERIMENTAL ANALYSIS OF DAMPING RING AND ITS INFLUENCE ON RAILWAY WHEEL DYNAMICS**

Ludek Pesek, Ladislav Pust, Vitezslav Bula, Pavel Snabl, Tomas Bohac, Hubert Tasek

10:30-11:00
Coffee Break

DAY 3 – WEDNESDAY, SEPTEMBER 4

TECHNICAL SESSIONS

Wednesday, September 4 11:00-13:00	Minos East
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ICOVP RS 9 - II: NONLINEAR DYNAMICS

Chair: Paritosh Biswas, Alexander Fidlin

- 18398** CALMING FORCED VIBRATIONS BY FRICTION BASED MASS DAMPERS WITH VARIABLE STRUCTURE
Alexander Fidlin, Jimmy Aramendiz

- 18365** NONLINEAR DYNAMIC(VIBRATION) ANNALYSIS OF IRREGULAR-SHAPED SANDWICH PLATES BY THE METHOD OF COMPLEX VARIABLES AND CONFORMAL MAPPING
Bapi Karmakar, Paritosh Biswas

- 18750** EFFECTS OF MICROGEOMETRY ON THE STABILITY AND EFFECTIVENESS OF FLOATING RING JOURNAL BEARINGS
Smolík Luboš

- 18758** INELASTIC BEAM ELEMENT WITHIN THE MATERIAL POINT METHOD
Christos D. Sofianos, Vlasis K. Koumousis

- 18780** FLUID-INDUCED INSTABILITY OF ROTOR SYSTEMS WITH JOURNAL BEARINGS AND INVESTIGATION OF DIFFERENT BEHAVIOUR DURING THE RUN-UP AND RUN-DOWN PROCESS
Jan Rendl, Luboš Smolík, Miroslav Byrtus

Wednesday, September 4 11:00-13:00	Minos North-South
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ICOVP MS 4 - II: ACTIVE AND PASSIVE STRUCTURAL CONTROL SYSTEMS - SEISMIC ISOLATION

MS Organizers: Evangelos Sapountzakis, Konstantinos Kapasakalis

Chair: Andreas Paradeisiotis

- 18653** DESIGN AND OPTIMIZATION OF THE KDAMPER CONCEPT FOR SEISMIC PROTECTION OF BRIDGES
Pyros-Orfeas N. Bollano, Konstantinos A. Kapasakalis, Evangelos J. Sapountzakis, Ioannis A. Antoniadis

- 18702** A MODULAR CONCEPT FOR QUITE ZONE GENERATION IN TRANSPORTATION MEDIA WITH MULTIPLE SEAT CONFIGURATIONS
Andreas Paradeisiotis, Christos Yiakopoulos, Ioannis Antoniadis

DAY 3 – WEDNESDAY, SEPTEMBER 4

Wednesday, September 4
11:00-13:00

Aphrodite-Artemis-Athena

ICOVP RS 1 - II: COMPUTATIONAL METHODS IN VIBRATION PROBLEMS AND WAVE MECHANICS

Chair: Ioannis E. Sapountzakis

-
- 18562** DAMPED UPDATED FINITE ELEMENT MODELS FOR DYNAMIC DESIGN

Vikas Arora

- 18756** THE COUPLED TUBE-MOORING SYSTEM SFT HYDRODYNAMIC CHARACTERISTICS UNDER WAVE EXCITATIONS

Pengxu Zou, Liangzhi Chen

- 18852** MODELLING WAVE BEHAVIOUR OF ELASTIC HELICAL WAVEGUIDES

Jamil Renno, Sadok Sassi, Mohammed Roshun Paurobally

- 18437** THREE DIMENSIONAL DYNAMICS OF LAMINATED CURVED COMPOSITE STRUCTURES: A SPECTRAL-TCHEBYCHEV SOLUTION

Mirmeysam Rafiei Anamagh, Bekir Bediz

- 18783** APPROXIMATE SOLUTION OF LINE INTEGRATION BY GREEN'S THEOREM WITH MIXED QUADRATURE

Saumya Ranjan Jena, Arjun Singh

13:00-14:30

Lunch Break

DAY 3 – WEDNESDAY, SEPTEMBER 4

TECHNICAL SESSIONS

Wednesday, September 4 14:30-16:30	Minos East
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ICOVP RS 13: SOUND AND VIBRATION

Chair: Olga Sapountzaki, Damir Gubaidullin

- 18487** DEPOSITION OF AEROSOL WITH RESONANT VIBRATIONS IN AN OPEN TUBE

Damir Gubaidullin, Rinat Zaripov, Liudmila Tkachenko, Linar Shaydullin

- 18513** ACOUSTIC WAVES PROPAGATION AND ABSORPTION IN VISCOELASTIC BUBBLE MEDIUM

Damir Gubaidullin, Anatolii Nikiforov

- 18523** ANALYSIS OF SUPER HIGH SPEED PERMANENT MAGNET BRUSHLESS MOTOR NOISE SOURCE AND ITS ATTENUATION

Shermaine Tan, Yue Cheng, U-Xuan Tan

- 18354** PROPAGATION OF SHOCK WAVES IN A ROTATING MEDIUM: POWER SERIES SOLUTION

Gorakh Nath

Wednesday, September 4
14:30-16:30

Minos North-South

ICOVP RS 15: VIBRATION CONTROL, UNCERTAINTY QUANTIFICATION AND RELIABILITY ANALYSIS OF DYNAMIC STRUCTURES

Chair: George Zusman

- 18735** STOCHASTIC BIT-ROCK INTERACTION FOR THE NONLINEAR AXIAL-TORSIONAL DYNAMICS OF A DRILL-STRING

Daniel Lobo, Thiago Ritto, Daniel Castello

- 18327** STRUCTURAL HEALTH MONITORING OF ROTATING MECHANICAL SEALS BY VIBRATION METHOD

George Zusman

- 18595** SEMI-ACTIVE STRUCTURAL VIBRATIONS CONTROL WITH MAGNETORHEOLOGICAL DAMPER BASED ON ADAPTIVE SLIDING MODE CONTROLLER

Leyla Fali, Khaled Zizouni, Mohamed Djermane, Younes Sadek

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ICOVP 2019

1-4 September, Crete, Greece

14th INTERNATIONAL CONFERENCE ON VIBRATION PROBLEMS

Under the auspices of the
National Technical University of Athens (NTUA)

