

SERBIAN SCIENTIFIC
SOCIETY
Belgrade • Šafarikova 7



СЕРБСКОЕ НАУЧНОЕ
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Белград • Шафарикова 7

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<http://afrodita.rcub.bg.ac.rs/~nds/>

<http://afrodita.rcub.bg.ac.rs/~nds/indexe.html>

ANNOUNCEMENT

Dear Colleagues,

**Department of Natural-mathematical Sciences
of the Serbian Scientific Society**

**is pleased to invite
scientists and researchers to participate in the scientific meeting**

**Symposium Non-linear Dynamics
Multi- and Interdisciplinary Applications
(SNDMIA 2012)**

**Симпозијум Нелинеарна динамика
Мулти и интердисциплинарне примене**

to be held in Belgrade, October 1-5, 2012.

Attachment contains preliminary First Announcement with primary necessary information.

Deadline for sending a two page abstract in English (and in addition, if possible, also in Russian or Serbian) is May 30, 2012 by e-mail to khedrih@EUnet.rs.

Official language is English, but oral presentation can be accepted in Serbian and Russian.

With respect,

Belgrade, February 29, 2012.

Secretary of
Department of Natural-mathematical Sciences
of Serbian Scientific Society

Katica R. (Stevanović) Hedrih
khedrih@EUnet.rs



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Symposium Non-linear Dynamics with Multi- and Interdisciplinary Applications (SNDMIA 2012), Belgrade, October 1-5, 2012
(Eight Serbian Symposium in area of Non-linear Sciences)

SCOPE OF THE SYMPOSIUM

The objective of the SYMPOSIUM is to bring together scientists and engineers working in different areas of science to present and discuss recent developments on different problems of nonlinear dynamics with multi and interdisciplinary applications.

Technical Program

- Plenary Lectures (5 Plenary Lectures by Leading Scientists in Nonlinear Dynamics - 45 minutes Lectures)
- Invited Lectures and Keynote Lectures (4-6 Invited Lectures or Keynote Lectures in sessions in different topics of natural-mathematical sciences and engineering – 30-45 minutes);
- Contributed Lectures and Presentations by Symposia participants (Contributed Lectures and Presentations accepted by Symposium Scientific Committee - 20 minutes; approximately 80-100 CL).

MAIN TOPICS OF THE SYMPOSIUM

A* Models and methods (analytical, numerical, geometrical, experimental) in nonlinear dynamics. Qualitative and quantitative analysis of nonlinear dynamic systems.

B* Nonlinear dynamics of continuous, discontinuous and hybrid systems.

C* Bifurcations and chaos.

D* Nonlinear stochastic systems.

E* Nonlinear dynamic phenomena.

F* Control of oscillations and chaos.

G* Applications in mechanics at different scales, and real problems from any branch of engineering science including mechanical, civil, electronic, electrical, communication, medical, materials.

H* Cross-disciplinary topics from applied mathematics, physics, biophysics, genetics, nanotechnology, finance, medicine and earth sciences.

A ROUND TABLE: Research ethics and evaluation of scientific and technological research results.

WORKING LANGUAGE of the conference is **ENGLISH** (and in special cases Contributed Lecture may be presented in Serbian and Russian Languages)..



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SUBMISSION OF ABSTRACT AND PRE-REGISTRATION FORM

Participants are invited to submit a Pre-Registration Form and a two-page Abstract before May, 30, 2012.

The ABSTRACT should be sent (in *.doc format) to khedrih@eunet.rs. Only electronic submissions will be accepted.

Confirmation of acceptance will be provided by June 20, 2012.

PROCEEDINGS OF THE CONFERENCE

After the Symposium authors of accepted presentations should send 10 pages full papers by October 15, 2012. Papers will be refereed and published in a Special publication or in a Special Issue of the Journal of Serbian Scientific Society. Instructions for preparation of papers will be presented at the Symposium site. Participants will receive the conference Proceedings at the Conference.

REGISTRATION PROCEDURE and FEES

Participants of the conference will be asked to submit a REGISTRATION FORM and to pay a REGISTRATION FEE.

Participants of Symposia with Contributed lectures	200,00 EUR
Ph.D. Students	60,00 EUR
Members of Serbian Society of Mechanics	100,00 EUR
Members of EuroMechn Society and GAMM	150,00 EUR
Members of other European Society in area of basic Sciences	180,00 EUR
Invited Participants by Serbian Scientific Society	100,00 EUR

The Registration fee should be paid before July, 16, 2012 by bank transfer. The bank account is:

PIB 11279104

Mart. Broj 07056176

Vojvodjanska banka 355-103 8492-98

Serbian Scientific Society, for Symposia Nonlinear Dynamics

Free of Registration Fee

Members of Serbian Scientific Society, participants under the age of 30 (Ph.D. Students and young researchers from Project teams in natural-mathematical sciences supported by Ministry of Sciences Republic of Serbia) and members of SANU, Participant with Plenary Lectures and Invited Lectures.

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Support by Ministry of Education and Science Republic of Serbia

<http://www.mps.gov.rs/sajt/>



Symposium Non-linear Dynamics Multi- and Interdisciplinary Applications (SNDMIA 2012)

Симпозијум Нелинеарна динамика Мулти и интердисциплинарне примене

to be held in Belgrade, October 1-5, 2012

HONORARY SCIENTIFIC COMMITTEE

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Academician Bogoljub Stanković
Academician Mileva Prvanović
Academician Vladan Djordjević
Prof. dr Slobodan Perović, President of Serbian Scientific Society
Prof. dr Zoran Marković, Mathematical Institute SANU
(To be continued)

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Prof. dr John T. Katsikadelis, National Technical University of Athens
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Prof. dr Jerzy Warminski, Lublin University Poland
Prof. dr J. A. Tenreiro Machado, ISEP-Institute of Engineering of Porto, Portugal
Prof. dr Albert Luo, School of Engineering Southern, Illinois University
Prof. dr Tomoaki Kawaguchi, Tensor Society, Japan
Prof. Dr.-Ing. Tamara Nestorović, Mechanik adaptiver Systeme, Ruhr-Universität Bochum, Germany
Prof. dr Boris Malomed, Department of Physical Electronics, Faculty of Engineering, Tel Aviv University
(To be continued)

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Prof. dr. Gradimir Milovanović, member of Serbian Scientific Society
Prof. dr Miloš Kojić, corresponding member of SANU,
Prof. dr Jagoš Purić, member of Serbian Scientific Society
Prof. dr Jaroslav Labat, member of Serbian Scientific Society
Prof. dr. Nadežda Vanlić-Razumenić, member of Serbian Scientific Society

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Prof. dr. Budimir Filipović, member of Serbian Scientific Society
Prof. dr. Momčilo Milutinović, member of Serbian Scientific Society
Prof. dr. Veljko Vujić, member of Serbian Scientific Society
Prof. dr. Dušan Dukić, member of Serbian Scientific Society
Prof. dr. Nadežda Petranović, member of Serbian Scientific Society
Prof. dr. Dragomir Davidović, member of Serbian Scientific Society
Prof. dr. Radosav Đorđević, member of Serbian Scientific Society
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Prof. dr. Nedeljko Parežanović, member of Serbian Scientific Society
Prof. dr. Milovan Radovanović member of Serbian Scientific Society
Prof. dr. Dragoljub Stefanović, member of Serbian Scientific Society
Prof. dr. Ljubomir Ćirić, member of Serbian Scientific Society
Prof. dr. Dragoslav Herceg, member of Serbian Scientific Society
Prof. dr. Miodrag Petković, member of Serbian Scientific Society
Prof. dr. Livija Cvetičanin, Faculty of Technical Sciences University of Novi Sad
Prof. dr Dragan I. Milosavljević, Faculty of Mechanical Engineering, University of Kragujevac
Prof. dr Stevan Maksimović, Researcher of Project On174001
Prof. dr Dragomir Zeković, Researcher of Project On174001
Prof. dr Vladimir Raičević, Researcher of Project On174001
Prof. dr Zlatibor Vasić, Researcher of Project On174001
Prof. dr Julka Knežević-Mijanović, Researcher of Project On174001
Prof. dr Tomislav Petrović, Researcher of Project On174001
Prof. dr Ljiljana Kolar-Anić, Leader of Project 172015
Prof. dr Slobodan Anić, Researcher of Project 172015
Prof. dr Željko Čupić, Researcher of Project 172015
Prof. dr Ljupco Hadzievski, Institute Vinča

Chairman of Symposia

Prof. dr Katica R. (Stevanović) Hedrih

Co- Chairman of Symposia

Prof. dr Žarko D. Mijajlović

The Organizing Committee:

Doc.dr Srđan Jović, member of team of Project ON174001
Doc.dr Nataša Trišović, member of team of Project ON174001
Doc. dr Ljiljana Veljović, member of team of Project ON174001
Mr Julijana Simonović, member of team of Project ON174001
Nikola Nešić, member of team of Project ON174001
Marija Stamenković, member of team of Project ON174001
Danilo Karličić, member of team of Project ON174001
Milan Čajić, member of team of Project ON174001
Marija Mikić, member of team of Project ON174001

Co-organizers

Department of Mechanics of Mathematical Institute SANU and Project OI174001
Serbian Society of Mechanics
Institut „Mihailo Pupin“ Belgrade
The Society of Physical Chemists of Serbia

(To be continued)

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Hotels

Hotel Royal * * *

Kralja Petra 56, Stari grad, 11000 Beograd
approximately 40 EUR Single room and breakfast

Hotel Slavija * * *

Svetog Save 1-9, Vračar, 11000 Beograd

Single Room	2,975.00/3,300.00 RSD (približno 34 €)
Double room	3,825.00/4,200.00 RSD (približno 44 €)

Hotel Slavija Lux * * * * *

Svetog Save 1-9, Vračar, 11000 Beograd

Single Room	7.766 RSD (80 €)
Double Room	9.632 RSD (103 €)



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History contribution Symposiums and mini-symposiums in area of Nonlinear Dynamics in Serbia

Symposium NONLINEAR DYNAMICS 2012 - НЕЛИНЕАРНА ДИНАМИКА 2012 organized by the Department of natural-mathematical sciences of Serbian Scientific Society is the eighth in Serbia in area of Nonlinear dynamics.

First symposium in area of Nonlinear mechanics was held in Aranđelovac in 1984 and was organized by Serbian society of mechanics. A leading scientist in the area of Nonlinear mechanics, academician RAS and NANU Yu.A. Mitropolskiy was an invited participant with a Plenary Lecture.



Invited Lecturer Academician RAN and NANU Yu. A. Mitropolskiy (KIEV) 1984 in Niš

Next scientific meeting in area of Nonlinear sciences was in 1991, organized by Chair of Mechanics at Faculty of Mechanical Engineering, University of Niš in the form of *Yugoslav Conference on Deterministic and Stochastic Processes in Dynamical Systems with Applications Nis 1991*



Invited Lecturer: Professor William Nash from MIT Massachusetts, First Editor in Chief and Founder of Journal Non-linear Mechanics, at Yugoslav Conference on Deterministic and Stochastic Processes in Dynamical Systems with Applications Nis 1991

The next conference was in 1995 in Niš and after that in 1997 in Vrnjačka Banja as a part of the program of the Yugoslav Congress of Theoretical and Applied Mechanics, in the

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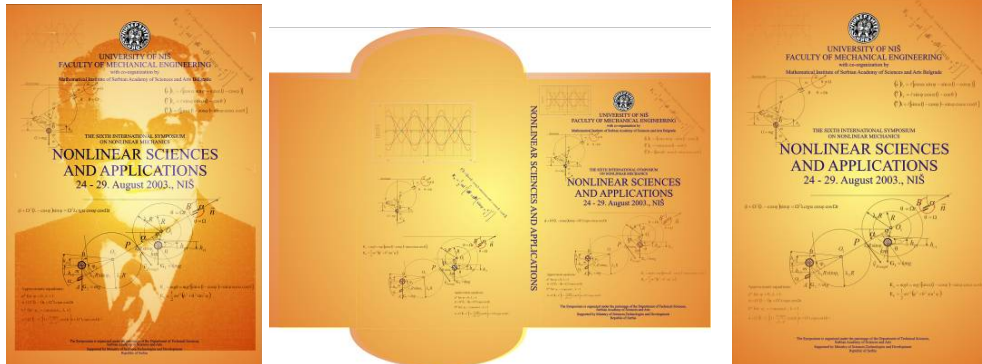


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form of Mini-Symposia on Nonlinear Dynamics. In 1995 academician Yuri A. Mitropolyskiy and Felix Chernousko were plenary lecturers. In 1997, participants were professors and academicians G. Rega, Vladimir Matrosov, Antoni Kounadis, Ilya Belkman and other important scientists.



In 2000 and 2003 Symposia in Nonlinear mechanics were organized by the Chair of Mechanics at Faculty of Mechanical Engineering, University of Niš.

THE FIFTH YUGOSLAV SYMPOSIUM ON NONLINEAR MECHANICS - NONLINEAR SCIENCES AT THE THRESHOLD OF THE THIRD MILLENNIUM (YUSNM NIŠ '2000) was a successful scientific meeting with participants from Russia, Greece, China, Bulgaria, Romania, Ukraine and Yugoslavia. Academicians Nikola Hajdin and Mileva Prvanović from Serbia and academician RAS Valentin Rumzantsev were among the Participants of YUSNM NIŠ '2000.

Participants of The 6th ISNM NSA NIŠ'2003 came from Poland, Italy, Russia, USA, Czech, Germany, Greece, Bulgaria, Rumania, Ukraine, Japan and Serbia. Among the participants were the President of International Federation of Nonlinear Analysis's (IFNA) and Editor -in-Chief of Journal Non-linear Analysis V. Lakshmikantham (USA) and President of Tensor Society and Editor of Journal Tensor T. Kawaguch (Japan) and President of AIMETA Professor G. Rega (University La Sapienza, Rome),

Last Mini-symposia Non-linear Dynamics was held in 2011 as a part of Serbian Congress of Theoretical and Applied Mechanics, (Third Serbian (28th Yu) Congress on Theoretical and Applied Mechanics, Vlasina lake, Serbia, 5-8 July 2011). Among invited lecturers were Professor Subhash C. Sinha, Director, Nonlinear Systems Research Laboratory at Auburn University and Founding Editor, ASME Journal of Computational and Nonlinear Dynamics and Professor John T. Katsikadelis, President of Hellenic Society of Mechanics.

Seminar for Nonlinear Dynamics - Milutin Milanković was organized by the Project ON144002 researchers as a forum for scientific research results evaluations and is working at Faculty of Mechanical Engineering in Niš supported by researchers from other Serbian Universities and by visiting professors from all the World.

Participants in this seminar (as well as interested others) contribute to the project entitled "ON144002 -Theoretical and Applied Mechanics of the Rigid and Solid Bodies. Mechanics of Materials (2006-2010)" as well as previous projects "1616 Real problems in Mechanics (2002-2005)" and "1828 Dynamics and Control of Active Structures Vibrations".

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The Fifth Yugoslav Symposium on Non-linear Mechanics -NONLINEAR SCIENCES AT THE THRESHOLD OF THE THIRD MILLENNIUM (YUSNM NIŠ '2000)

Participants from Russia, Greece, China, Bulgaria, Rumania, Ukraine and Yugoslavia
Academicians Nikola Hajdin, Mileva Prvanović and Valentin Rumzantsev (RAS) between
Participants of YUSNM NIŠ '2000.

Sixth International Symposium on Non-linear Mechanics Non-linear Sciences and
Applications Niš 2003 (The 6th ISNM NSA NIŠ'2003),



*Participants at The 6th ISNM NSA NIŠ'2003, from Poland, Italy, Russia, USA, Czech, Germany, Greece, Bulgaria, Rumania, Ukraine, Japan and Serbia
President of IFNA editor of Journal Nonlinear Analysis V. Lakshmikantham (USA) and
President of Tensor Society and Editor of Journal Tensor T. Kawaguchi (Japan)
President of AIMETA Professor G. Rega (University La Sapienza, Rome)
between Participants of The 6th ISNM NSA NIŠ'2003*



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Last Mini-symposia Non-linear Dynamics at Third Serbian (28th Yu) Congress on Theoretical and Applied Mechanics, Vlasina lake, Serbia, 5-8 July 2011. Between invited lecturers were Professor Subhash C. Sinha, Director, Nonlinear Systems Research Laboratory at Auburn University and Founding Editor, ASME Journal of Computational and Nonlinear Dynamics and Professor John T. Katsikadelis, President of Hellenic Society of Mechanics.

IMPORTANT DEADLINES

March, 20, 2012	Pre-Registration, Submission of Presentation title
May 30, 2012	Submission of two-pages extended abstracts
June 20, 2012	Acceptance notice of abstracts
July 30, 2012	Registration, Submission of Final version of two-pages extended abstracts

In Second Announcement in June 20, 2012 – Information about starting day of Symposia (in beginning of October 2012).

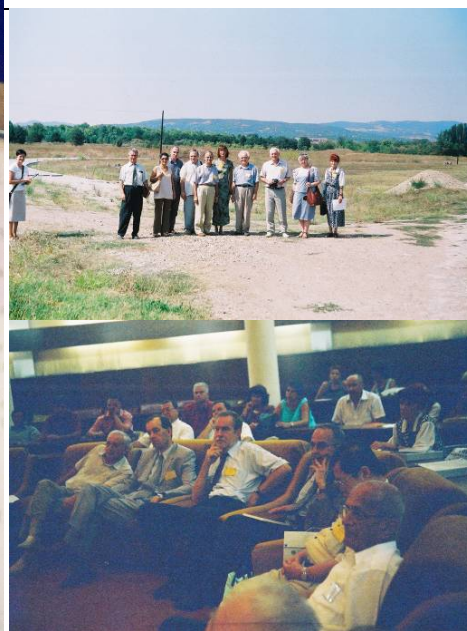
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Academician Vladan Djordjević – Invited
Lecturer at **The 6th ISNM NSA NIŠ'2003**

