



Russian
Science
Foundation



*Mechanical Engineering Research Institute
of the Russian Academy of Sciences*

**IV International School-Conference for Young Scientists
"Nonlinear Dynamics of Machines" SCHOOL-NDM 2017
Moscow, April 18 – 21, 2017.**

Dear Colleagues!

The 4-th International School-Conference for Young Scientists "Nonlinear Dynamics of Machines" (SCHOOL-NDM-2017) will be held in Moscow in the period from 18 to 21 April 2017 at Mechanical Engineering Research Institute of the Russian Academy of Sciences, under the auspices of the International Federation for the Promotion of Mechanism and Machine Science – IFTOMM.

Main purposes

- *Training and familiarization of young scientists, engineers and students with modern methods and the results of theoretical and experimental research in the field of nonlinear dynamical systems;*
- *The establishment of contacts between leading scientists and young researchers;*
- *Discussion and formulation the tasks;*
- *Exchange of the latest scientific information, formation of motivation among young people doing science in the field of machine dynamics and their involvement in research activities.*

The School includes a series of lectures on topical issues and research methods of dynamics of machines with nonlinearities of various physical nature, prepared by leading scientists from Russia and other countries. In addition, participants of the School in a friendly atmosphere will have the opportunity to present their research work, to discuss topical scientific issues, as well as to receive consultations of leading specialists. Participants will receive the certificate of professional development in the direction the applied theory of mechanical oscillations and nonlinear dynamics of machines.

General plan of the School

Four working days. Each day include lectures of leading scientists from Russia and other countries, reports of the School participants, roundtables, discussions and consultations.

Important dates

Participation registration – till March 17th, 2017

Paper submission – till March 17th, 2017

School – 18-21 April 2017

School languages — Russian and English.

Registration

Registration of participants is available only through the School web-site <http://school.dyvis.ru/>. To register please fill in the registration form in the “Registration” section.

Registration fee – not charged.

Publications

The paper should be prepared in English or Russian languages in accordance with the template presented at school.dyvis.ru. All submissions will be reviewed. Printed version of the proceedings book will be assigned an ISBN and DOI. The electronic version of the book will be included in the Russian Science Citation Index and posted on the websites www.elibrary.ru and school.dyvis.ru.

The List of Lectures

1.	Prof. Lionel Arnaud National School of Engineers of Tarbes, France	Research and industrial applications on machining chatter
2.	Prof. Jan Awrejcewicz Lodz University of Technology, Poland	Some Problems of Non-linear Dynamics of a Rigid Body Moving on a Plane
3.	Prof. Vladimir Babitsky Loughborough University, United Kindom	Structural synthesis of the hand-held percussion machines secured from the hazardous vibration
4.	Prof. Algimantas Bubulis Kaunas University of Technology, Lithuania	Mechanical Oscillations in Biomechatronics: Theory and Some Applications
5.	Prof. Yann Landon University Toulouse III - Paul Sabatier, France	Vibration-assisted drilling: special aspects and dynamic issues
6.	Prof. Philippe Lorong, Prof. Mikhail Guskov Ecole Nationale Supérieure d'Arts et Métiers, France	Around chatter in thin-walled tubes turning - Frequency and time domain analysis
7.	Prof. Jaroslav Zapomel Brno University of Technology, Czech Republic	Actual problems of nonlinear dynamics of rotor systems
8.	Prof. Lyudmila Banakh Mechanical Engineering Research Institute of the Russian Academy of Sciences, Moscow	Vibrations of mechanical systems with a periodic structure
9.	Member of RAS Nikolay Bolotnik Institute for Problems in Mechanics of RAS, Moscow	Vibrorobotics. Dynamics and Motion Control
10.	Prof. Alexey Borisov Udmurt State University, Izhevsk	Spherical Robots: Mechanics and Control
11.	Prof. Evgeniy Briskin Volgograd State Technical University, Volgograd	Nonlinear Problems of Controlled Motion Dynamics of Walking Machines
12.	Prof. Sergey Voronov Bauman Moscow State Technical University, Moscow	Nonlinear problems of dynamics of cutting with vibrations
13.	Prof. Irina Demyanushko Moscow Automobile and Road Construction State Technical University, Moscow	Application of numerical methods of nonlinear dynamics for solving problems of prediction the consequences of the car crashing on road barriers
14.	Prof. Vitaliy Krupenin Mechanical Engineering Research Institute of the Russian Academy of Sciences, Moscow	Vibrational Fields in Structures Having Multiple Discontinuities
15.	Prof. Igor Pavlov Institute of Problems of Mechanical Engineering of the Russian Academy of Sciences, Nizhny Novgorod	Rotational Waves in Materials and Structures
16.	Prof. Grigoriy Panovko Mechanical Engineering Research Institute of the Russian Academy of Sciences, Moscow	Control of resonant oscillations in nonlinear electromechanical systems
17.	Prof. Valeriy Podalkov National Research University "MPEI", Moscow	Nonlinear problems of gyroscopes dynamics
18.	Prof. Alexander Seyranyan Institute of Mechanics of Lomonosov Moscow State University, Moscow	Parametric problems of dynamic instability
19.	Prof. Sergey Sorokin St. Petersburg State Marine Technical University, St. Petersburg	Periodicity effects in vibro-acoustics
20.	Prof. Yuriy Temis Central Institute of Aviation Motors, Moscow	Nonlinear oscillations of aircraft engine parts

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