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5th INTERNATIONAL CONFERENCE
NONLINEAR DYNAMICS — 2016

*Dedicated to the 90th Anniversary of
Academician V.L. Rvachev*

September 27-30, 2016

PROCEEDINGS

**National Technical University “Kharkov Polytechnic Institute”
(Kharkov, UKRAINE)**

**National Committee of Ukraine on Theoretical and Applied Mechanics
S. Timoshenko Institute of Mechanics NAS of Ukraine (Kiev, UKRAINE)**

McGill University (Montreal, CANADA)

Technion - Israel Institute of Technology (Haifa, ISRAEL)

**A.Podgorny Institute for Mechanical Engineering Problems NAS of Ukraine
(Kharkov, UKRAINE)**

**5th INTERNATIONAL CONFERENCE
“Nonlinear Dynamics - 2016”**

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Dear Participants of the 5-th International Conference "Nonlinear Dynamics-2016",

It is a great honor and pleasure for me to welcome you at our University!

We are proud that 12 years ago, the first international conference on nonlinear dynamics was initiated by scientists of the University and held at our University. Known scientists from many countries (Canada, China, Germany, Great Britain, Italy, Japan, Korea, Latvia, Poland, Serbia, Russia, Ukraine, USA, and others) were participants of this

and next conferences.

The second conference "NONLINEAR DYNAMICS" was dedicated to the 150 anniversary of birth of A. M. Lyapunov, one of the founders of this scientific direction.

The third conference was dedicated to the 125th anniversary of the National Technical University "Kharkov Polytechnic Institute".

The fourth conference was held in Sevastopol.

*The present fifth conference we decided to devote to outstanding Ukrainian scientist Academician of the National Academy of Sciences of Ukraine- **Vladimir Logvinovich Rvachev**. On October 21, 2016 he could have turned 90 years. V. L. Rvachev is honorary doctor of NTU "KhPI".*

I am pleased that scientists of NTU " KhPI" continue to develop the scientific direction, founded by such outstanding scientists as A. Lyapunov, I. Babakov, A. Philippov, A. Volmir and V. L. Rvachev who worked at our University.

We are grateful to the participants of the previous four conferences and current fifth conference for their active support and excellent reports. At these conferences, leading scientists from many countries have presented contemporary results and developed methods of solving actual problems in nonlinear dynamics. Today, in a very difficult time for Ukraine, we are particularly grateful to you for participating at this conference.

I am sure that atmosphere of the conference will be friendly and suitable for work and discussions, for establishment of new contacts and for exchange of new scientific ideas during the conference.

I welcome you all and wish this conference to be successful !

Rector of National Technical University
"Kharkov Polytechnic Institute",
Chairman of Organizing Committee Professor

E. I. Sokol

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