

## Enquiry Form

for participation in the Fourth Open International Conference “Extremal and Record-Breaking flights of aircraft including RPAS (UAS) and the Aircraft with electrical power plant”

Organization \_\_\_\_\_

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\_\_\_\_\_

Scientific topic \_\_\_\_\_

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Title of the report \_\_\_\_\_

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First name, surname \_\_\_\_\_

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Mailing address (with postal code) \_\_\_\_\_

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Tel \_\_\_\_\_

E-mail \_\_\_\_\_

(Full name, signature) \_\_\_\_\_

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## Reports submission

The materials of the investigations on the scientific topics listed can be submitted on the conference. Abstracts written in English must be without pictures and their lengths must be less than 500 words.

Organizing committee reserves the right to decline the materials (including the ones not connected with the scientific topics of the workshop) without any comments.

To participate in the conference you need to send the following documents to the organizing committee by fax or by e-mail: [erba@phystech.edu](mailto:erba@phystech.edu)

**before APRIL 1, 2018:**

1. Enquiry form;
2. Abstract of the report (for presenters).

For Russian participants it is also necessary to submit permission for publication in hard copy, fax or electronic form **before MAY 15, 2018.**

## Conference organizing committee address:

Moscow Institute of Physics and Technology,  
Department of Aeromechanics and Flight Engineering

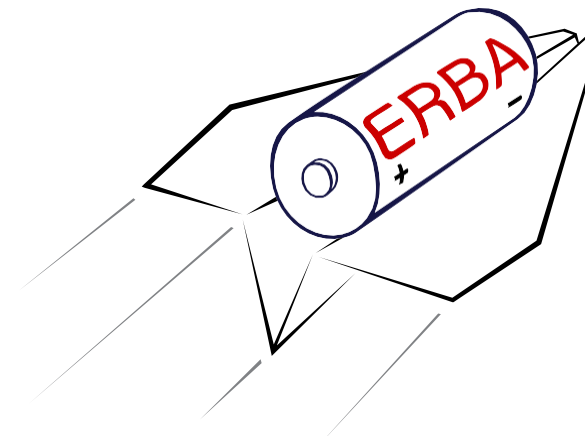
16, Gagarina Str., Zhukovsky, Russia, 140180

TEL. +79854119397; FAX +7(495)556-84-17;

## Conference secretary:

Volkova Anastasia

e-mail: [erba@phystech.edu](mailto:erba@phystech.edu)



Fourth International Scientific Conference  
“Extremal and Record-Breaking flights of aircraft  
including RPAS (UAS) and the Aircraft with electrical  
power plant”

# ERBA 2018



Zhukovsky, 3–5 July 2018  
<http://erba.falt.ru>

## Information letter

The Department of Aeromechanics and Flight Engineering (DAFE) of Moscow Institute of Physics and Technology (MIPT) is holding the Fourth open **International Conference “Extremal and Record-Breaking flights of aircraft including RPAS (UAS) and the Aircraft with electrical power plant: ERBA 2018”** on the **3 – 5 of July 2018**.

Conference will be held under support of Central Aerohydrodynamic Institute named after professor N.E.Zhukovsky (TsAGI) and Russian Foundation for Basic Research (RFBR).

## Scientific committee

**Chernyshev Sergey** – Dr.-Prof., General Director TsAGI, Academician of RAS, Chairman, Russia

**Potapov Boris** - Dr.-Prof., Deputy Director of MIPT School of Aerospace Technologies, vice-chairman, Russia

**Kudrov Maksim** - Dr., Dean of MIPT DAFE, Russia

**Kutahov Vladimir** - Dr.-Prof., Head of the project complex “Robotic automated aircraft 2030”, National research center, Russia

**Shibaev Vladimir** - Dr., director of Aviation certification center, Russia

**Medvedsky Alexander** - Dr., Deputy General Director TsAGI, Russia

**Vyshinsky Victor** – Dr.-Prof., TsAGI, DAFE MIPT, Russia

**Dongsheng Wen** – Dr.-Prof., Dean of School of Aeronautic Science and Engineering, Beihang Univ., China

**Jean-Marc Moschetta** – Dr.-Prof. of Institut Supérieur de l’Aéronautique et de l’Espace ISAE, Toulouse, France

**Golubev Vladimir** – Dr.-Prof., Embry-Riddle Aeronautical University, ERAU, Florida, USA

**Ahmed F. El-Sayed Helal** – Dr.-Prof., Zagazig University, Egypt

**Simon Watkins** – Dr.-Prof., RMIT, Melbourne, Australia

**Ben M. Chen** - Dr - Prof., National University of Singapore, Singapore

**Shengping Shen** - Dr.-Prof., Dean of the School of Aerospace, Xi’an Jiaotong University, China

**Wolkov Andrey** – Dr.-Prof., Head of the Division, TsAGI

**Sokolov Evgeniy** – Dr.-Prof., SPbPU, S. Petersburg, Russia

**Turkin Igor** – Dr.-Prof., Moscow Aviation Institute (MAI), Moscow, Russia

**Shcheglov Grigory** - Dr.-Prof., BMSTU, Moscow, Russia

**Koryanov Vsevolod** - Dr.-Associate Prof., First deputy head of Department, BMSTU, Moscow, Russia

**Shustov Andrey** – Dr.-Associate Prof., Head of the Division, TsAGI, Russia

## Conference scientific topics

- Flight dynamics and aerodynamic aspects of the flight of the RPAS and the aircraft with electrical power plant
  - Unsteady aerodynamics and flight dynamics of the RPAS
  - Design of the RPAS and the aircraft with electrical power plant
  - Certification of RPAS & RPAS Pilots & Operators
  - RPAS safety in the non-segregated airspace
  - Remotely piloted and small aircraft vehicles in orographic turbulence conditions
  - Extremal and record-breaking flights
  - Theory and practice of the “unconventional” flying vehicles (flapping wing, balloons, hovercraft, convertiplanes etc.)
  - Avionics, electronics and power sources for the RPAS
  - Small aircraft vehicles: CFD or Wind Tunnel tests?
  - Navigation and aircraft motion control
  - RPAS design and structure
  - Neural networks in airspace science
  - RPAS acoustics
  - RPAS swarming and closed formation flight
  - Involving young people into the aerospace science
- Round tables for some topics can also be organized.

## Local Organizing committee:

**Serokhvostov Sergey** – Dr.-Associate Prof., Executive Chairman

**Volkova Anastasia** – secretary, Deputy Chairman

**Katzyhenkova Alena** - volunteer coordinator

**Tsivinyuk Matvey** – webmaster

## Official language: English

Best papers of ERBA will be recommended for publication in the special Issue of "Unmanned Systems", <http://www.worldscientific.com/us>

Static exposition of the RPAS will be organized.

## Important dates

**FEB 15, 2018** – Application for participation and submission of abstracts;

**APR 1, 2018** – Deadline for abstracts’ submission;

**APR 15, 2018** – Notification of acceptance;

**MAY 15, 2018** – For Russian participants: Deadline for submission of the permission for publication;

**JUN 1, 2018** – Deadline for the conference articles submission;

**JUL 3, 2018** – Opening of the Conference.

## Registration fee

(Registration before the payment is required!!!)

Payment without the registration will be considered as the sponsorship)

**Early payment (before JUNE 1, 2018):**

Participation with presentation,

with static exposition: 200\$

Participation without presentation: 300\$

Student with presentation: 100\$

**Payment after JUNE 1, 2018:**

+50\$ to the sum mentioned above

**Special discount for the Russian participants from ERBA sponsors:**

For the early payment the conference fee is:

Participation with presentation, with static exposition:

2000 Roubles

Student, PhD students with presentation, with static

exposition: 1000 Roubles

MIPT students, PhD students with presentation,

with static exposition: free of charge

Registration fee covers lunches, coffee breaks, official dinner(s) and “conference kit”.

## Sponsors

Sponsors are welcome!

For details, please visit our website <http://erba.falt.ru>

e-mail: [erba@phystech.edu](mailto:erba@phystech.edu)

For Russian participants: Conference can be considered as the professional development. Special certificates will be given to the participants. For details, please visit our websites: <http://erba.falt.ru>.