



6th International BAPT Conference

“POWER TRANSMISSIONS 2019”

June 19-22, 2019, Varna, Bulgaria

Organizers

Balkan Association of Power Transmissions (BAPT)
Scientific-Technical Union of Mechanical Engineering (STUME)

Co-Organizers

Institute of Mechanics – Bulgarian Academy of Sciences
 Technical University, Sofia
 Ruse University “A. Kanchev”
 Univ. of Mining and Geology “St. Ivan Rilski”, Sofia
 Univ. of Chemical Technology and Metallurgy, Sofia

Conference Chairman:

KARAIVANOV Dimitar, President of BAPT.

Honorary Committee

ARNAUDOV Kiril, BAPT Initiator and Founder, 1st President (2001-2003) and Honor President (since 2012).
 POPOV Georgi, President of the Scientific-Technical Union of Mechanical Engineering.
 KUZMANOVIĆ Siniša, BAPT Founder, 2nd President (2003-2006).
 MIHAILIDIS Athanassios, BAPT Founder, 3rd President (2006-2009).
 SIMONOVSKI Petar, 5th President (2012-2016).
 MILTENOVIC Vojislav, BAPT Founder.
 OGNJANOVIĆ Milosav, BAPT Founder.
 GOLDFARB Veniamin, Excellent gearing expert.
 HLEBANJA Jože, Excellent gearing expert.
 KUBO Aizoh, Excellent gearing expert.
 LINKE Heinz, Excellent gearing expert.

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 MARTIKKA Heikki, Finland
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 SPITAS Christos, Netherlands
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 ABADJIEVA Emiliya, IMech – BAS
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 PANDEV Georgi, UCTM Sofia
 SLAVOV Valentin, UCTM Sofia
 STEFANOVIĆ-MARINOVIĆ Jelena, Univ. of Nis, Serbia
 TROHA Sanjin, Univ. Rijeka, Croatia

Academic support

KAVARDJIKOV Vasil, Director of the IMech – BAS
 DIMITROV Lubomir, Vice-Rector of the TU, Sofia
 POZHIDAEVA Vyara, Vice-Rector of the UMG “St. Ivan Rilski”, Sofia
 MIHAILOV Emil, Vice-Rector of the UCTM, Sofia

Industrial support

STOIMENOV Georgi, “Podemcrane”, Gabrovo
 RAYCHEV Emil, “Bulmachinery”, Radomir

In memoriam

ŠARENAC Momir, – BAPT Founder
 DOBRE George, 4th President (2009-2012)
 STAMBOLIEV Dimitar, BAPT Founder

Topics

- Design, analysis, simulation and optimization;
- Fatigue, load carrying capacity, durability, reliability;
- Dynamics, vibration and noise;
- Maintenance and operation;
- Tribology, lubrication;
- Materials and technological processes;
- Experimental study;
- Industrial application;
- Education;
- Other relevant subjects.

Language

The official language of the conference is English. Papers may be presented orally in English, German or Russian. The PowerPoint presentation must be in English.

Call for Papers

Scientists from all over the world are kindly invited to present the results of their research in oral and poster sessions.

Companies, offering machines, materials, technologies and services on the market, are also invited to present practical results in accordance with the Conference topics in the form of company presentations and advertisement at the Conference halls and in the Conference printed issues.

All instructions can be found on the Conference website: <http://www.bapt.eu/> An example of the title page can be downloaded there, so the authors could write easily the whole paper according to the requirements.

Publications

All papers included in the conference scientific program will be published as follows:

- **Digital media** containing all papers submitted on the English or Russian;
- Accepted papers written in English and received reviewers' approval: **Proceedings of the 6th International BAPT Conference “Power Transmissions 2019”, MATEC Web of Conferences (indexed in SCOPUS)**. A maximum of two papers per author is accepted.

- Papers, **written in English**: in the separate issue of the International scientific journals according to the themes of the papers:

- "**Machines. Technologies. Materials**" t ISSN 1313-0226, Web ISSN 1314-507X)
- "**Trans&Motauto World**" (Print ISSN 2367-8399, Web ISSN 2534-8493)
- "**Industry 4.0**" (Print ISSN 2543-8582, Web ISSN 2534-997X)
- "**Mathematical Modeling**" (Print ISSN 2535-0986, Web ISSN 2534-2929)

General Information

Venue

The Conference will be held in Varna, Resort "St. St. Konstantin and Elena", Bulgaria.

Registration, opening, plenary and sectional sessions: Hotel "Aqua Azur" ****.

Varna is a typical "full of history" Balkan town. Inhabited millennia ago, an ancient Greek colony (Ὀδησσός), an important port of the three empires (Roman, Byzantine and Ottoman) and of the three Bulgarian kingdoms, nowadays Varna is the main port and an attractive tourist destination of the Republic of Bulgaria.



"St. St. Konstantin and Elena" is the oldest Bulgarian Black Sea resort. It is located 10 km northeast of the centre of Varna. Situated around the monastery of the same name "Saints Constantine and Helen" (XVI century, the only place in Bulgaria where part of the relics of St. Valentine is kept) it offers a

wonderful sandy beach and many others entertainment, including mineral pools.



Accommodation

Hotel "Aqua Azur" ****

Address: Varna, PO Box 9006, Resort "St. St. Konstantin and Elena".

GPS coordinates:

N 43° 14,277'

E 28° 00,828'



Reservation and payment through the Organizing Committee of the Conference (see Form B)

Schedule

19.06.2019 (Wednesday) 14:00-18:00

Registration of the participants.

20.06.2019 (Thursday) 8:00-10:00

Registration of the participants; 10:00 Opening ceremony. Plenary session. Sectional sessions. Poster session. Welcome party.

21.06.2019 (Friday) 09:00 Sectional sessions. Closing of the Conference.

22.06.2019 (Saturday) Departure of the participants.

Entry to Bulgaria

Visitors from the European Union coming to Bulgaria need an identity document.

Visitors from other countries may be requiring an entry visa.

Visitors are recommended to contact the Bulgarian Embassy (you can find them on: <http://www.mfa.bg/>) or Consulate in their own country for information on visa requirements. If an official letter of invitation is requested, please contact the Conference Secretariat in due time (before the registration deadline).

Currency

The official currency is BGN (lev, pl.: leva).

1 EUR = 1.95583 BGN

All major credit cards (e.g. VISA, MasterCard, Eurocard) are usually accepted in Bulgaria

Emergency Services

Uniform European telephone number for emergency situations: **112**

Conference Secretariat

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Website: <http://www.bapt.eu>

Deadlines

Sending the paper summary and the Application for Publication Form A or online registration	15.11.2018
Confirmation of receipt of the summary	30.11.2018
Sending the paper and the Application for Participation Form B or online registration	15.02.2019
Confirmation of accept of the paper (with revivers recommendations)	15.04.2019
Sending the camera ready paper	15.05.2019
Payment of the conference fees	15.05.2019
Announcement of the plenary and sectional meetings' program of the Conference on http://www.bapt.eu	10.06.2019
Sending the poster reports to the Organizational Committee	10.06.2019
Registration of the participants: from 16:00 to 20:00 h	19.06.2019
Conference opening at 10:00 h	20.06.2019



Balkan Association of Power Transmissions (BAPT)



Univerzitet u Istočnom Sarajevu
MAŠINSKI FAKULTET



National Technical University
"Kharkiv Polytechnic Institute"