

PROGRAM

April 28, 2023

İstanbul University Senate Hall

10:00-10:30 Registration

10:30-11:00 Opening Remarks

11:00-12:00 Keynote Speech

*Prof. Dr. Supawan Tantayanan, Chulalongkorn University &
AASSA Executive Board Member*

*“Inclusive and Equitable Quality Education in Basic Sciences
in Secondary Schools in Asia: Small-Scale Chemistry
Experimentation”*

12:00-14:00 Lunch Break

14:00-15:35 **SESSION I**

Chairs:

Prof. Dr. K. Arzum Erdem Gürsan & Prof. Dr. Fatih Gültekin

14:00-14:20 *Prof. Dr. Nihat Berker*

*“Student Engagement and Early Success, Spin Glasses, Chaos,
Music and Brain, from Renormalization-Group Theory”*

14:20-14:40 *Prof. Dr. Tayfun Özçelik*

*“Education in Basic Sciences: The Bilkent Experience
over the Last 33 Years”*

14:40-15:00 *Prof. Dr. Mustafa Ersöz*

“The role of basic Sciences in Research and Innovation”

15:00-15:20 *Prof. Dr. Bilge Demirköz*

“Scientific Skill Sets for a Changing World”

- 15:20-15:40** *Prof. Dr. Hüseyin Arslan*
***“Disaster Communication With Earthquake Case Study:
Why It Does Not Work When Needed Most?”***
- 15:40-15:55** Discussion
- 15:55-16:10** Coffee Break
- 16:10-17:45** **SESSION II**
Chairs:
*Prof. Dr. Gabor Hamza & Prof. Dr. Mustafa Ersöz &
Prof. Dr. Mustafa Reşat Apak*
- 16:10-16:30** *Khalil Raza & Prof. Dr. Seyed Komail Tayebi*
“Role of Basic Sciences in Climate Mitigation”
- 16:30-16:50** *Prof. Dr. Abdeslam Hoummada*
***“Hassan II Academy of Science and Technology Actions for
the Promotion of Basic Sciences”***
- 16:50-17:10** *Prof. Dr. Cornelia-Sabina Ispas*
***“The Involvement of National Academies in Ethnological
Research in the Hyper-Technological Society”***
- 17:10-17:30** *Prof. Dr. Arif M. Hashimov & Assoc. Prof. Rustam B. Rustamov*
***“A Platform for Basic Science and Innovation in Sustainable
Development”***
- 17:30-17:45** Discussion

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09:30-10:00 Keynote Speech

Prof. Dr. Hasan Mandal, President of TÜBİTAK

10:00-11:00 Keynote Speech (Online)

Prof. Dr. Masresha Fetene, IAP Co-president

11:00-12:30 SESSION III

Chairs:

Prof. Dr. Bekir Salih & Prof. Dr. Ertuğrul Kılıç

11:00-11:20 *Prof. Dr. Sergey Gaponenko*

“Basic sciences: The mission of homo sapiens in the universe”

11:20-11:40 *Prof. Dr. Yury Kulchin, Prof. Dr. Viktor Bogatov, Marina Shtets*

“Scientific Potential of the Russian Far East”

11:40-12:00 *Prof. Dr. Svojetlana Terzić*

“The Role of Science Academies in Sustaining the Theoretical Basic Sciences”

12:00-12:20 *Assoc. Prof. Azyk Orozonova, Assoc. Prof. Parmanasova Aisulu,*

Kubatova Aigerim, Churek Akayeva & Akmatova Aigerim

“Basic Science and Economic Growth Based on Innovative Development”

12:20-12:30 Discussion

12:30-13:30 Lunch Break

13:30-15:30 SESSION IV

Chairs: *Prof. Dr. Kazim Şahin & Prof. Dr. Mehmet Emin Aydın*

13:30-13:50 *Prof. Dr. İlkay Erdoğan-Orhan*

“Intertwined Dependence of Pharmaceutical Research and Basic Sciences”

- 13:50-14:10** *Prof. Dr. Sezgin Bakırdere*
“Chemistry in the Progress of Basic Sciences”
- 14:10-14:30** *Prof. Dr. Ertuğrul Kılıç*
“The Significance of Fundamental Research
- 14:30-14:50** *Assoc. Prof. M. Furkan Şener & Prof. Dr. Abdülkadir Hızıroğlu*
*“Geothermal Energy from Basic Sciences Perspective: Turkey’s
Potential and Contribution to the Economy”*
- 14:50-15:10** *Assist. Prof. Musab Talha Akpınar & Dr. Zeynep Aysan-Şahintaş*
*“Looking Backward to the Future: The Contribution of
Basic Sciences to the Advancement of Artificial Intelligence
Technologies”*
- 15:10-15:30** Discussion
- 15:30-15:45** Coffee Break

15:45-16:30 **SYMPOSIUM EVALUATION & CLOSING REMARKS**

Chair: *Prof. Dr. Ahmet Nuri Yurdusev*

Prof. Dr. Supawan Tantayanan
Prof. Dr. Seyed Komail Tayebi
Prof. Dr. Mustafa Ersöz
Prof. Dr. Bekir Salih