

# Newsletter

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Happy New Year 2020

## Prof. Muzaffer Şeker Appointed as the President of TÜBA

TÜBA Principal Member Prof. Muzaffer Şeker, TÜBA Council member between 2012-2018 and former Rector of Necmettin Erbakan University between 2010-2018, was appointed as TÜBA President on May 15, 2019 by President Recep Tayyip Erdoğan.

Prof. Muzaffer Şeker was elected as the presidential candidate at the first place in the elections held on 4 July 2018 at the the general assembly of the Academy due to the expiration of President Prof. Ahmet Cevat Acar's second term.



TÜBA President Prof. Muzaffer Şeker



A Shot From Handover Ceremony

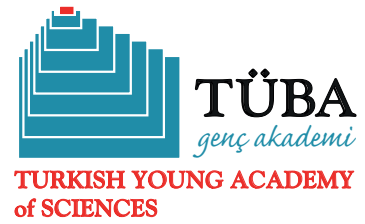


## ALLEA 2019 General Assembly was Held in Switzerland

ALLEA celebrated the 25<sup>th</sup> anniversary in Bern, Switzerland on May 8-10, 2019 with the participation of TÜBA Principal Member Prof. Ahmet Nuri Yurdusev, representing TÜBA and 20. ALLEA General Assembly was held.

The events were organized and hosted by the Swiss Academy of Arts and Sciences. As in previous years, the representatives of more than 50 member academies met to discuss ALLEA's strategy, governance and policy issues at the general assembly.

ALLEA 25<sup>th</sup> anniversary celebrations took place on May 8, 2019 at the opening of the General Assembly held at the University of Bern. Christian Leumann, Rector of the University of Bern and Guy Parmelin, Member of the Swiss Federal Council, made the opening speeches. President of the ALLEA and the Swiss Academy of Arts and Sciences Antonio Loprieno gave a special seminar on the role of academies in European societies. Finally, Director General of European Research and Innovation Jean-Eric Paquet made the anniversary speech, highlighting 25 years of cooperation between European academies and showing future researches.



## TÜBA Young Academy

TÜBA launched TÜBA-GEBİP (Outstanding Young Scientists Program) in 2001 in order to get young scientists, who come to fore in Turkey with her/his researches under the umbrella of the Academy, to create a synergistic environment between themselves and their interaction with Academy members, and to provide the academic, financial support and encouragement they need.

TÜBA's long-term efforts for the establishment of the Young Academy have come to an end. TÜBA Young Academy was officially established with the decision of the Academy Council in November 2019. In this respect, it was decided that TÜBA-GEBİP Award-winning scientists will be considered as natural members of TÜBA Young Academy.

## 4<sup>th</sup> Congress on Turkish Scientists Abroad



TURKISH ACADEMY OF SCIENCES



TÜBİTAK



"4<sup>th</sup> Congress of Turkish Scientists Abroad" organized in cooperation with TÜBA and TÜBİTAK was held on September 20-21, 2019 at Atatürk Airport as part of the Istanbul Aerospace and Technology Festival (TEKNOFEST).

A total of 96 scientists from 18 different countries such as the USA, Denmark, Norway and Malaysia participated in the congress that was organized under the titles of "Rising Technologies According to Global Trends" and "Interaction of Science, Technology and Innovation Ecosystem".

Minister of Science and Technology Mustafa Varank, Deputy Minister of Science and Technology Mehmet Fatih Kaçır, TÜBA President Prof. Muzaffer Şeker, TÜBİTAK President and TÜBA Principal Member Prof. Hasan Mandal, and many scientists, bureaucrats and statesmen also attended the TEKNOFEST.

**TÜBA President Prof. Muzaffer Şeker: "The primary conditions for success and goals are to have a qualified human**

**resource, to employ it locally and to create and maintain an ecosystem that will train and retain human resources."**

Underlining that the most important determinant of the political weight of countries in the world is the robust economy, Prof. Şeker said: "Achieving and sustaining economic success is possible by having specific goals. The primary conditions for success and goals are to have a qualified human resource, to employ it locally and to create and maintain an ecosystem that will train and retain human resources. For this purpose, although our institutions have implemented many measures, support and incentives, I would like to state that we have both past and current problems. I find this platform where the stakeholders can present and discuss their academic objective suggestions in terms of providing more rational solutions to our problems."

After the congress, the concrete proposals and action plans determined for both main topics will be prepared as a final report and shared with all participants and stakeholder institutions and organizations.

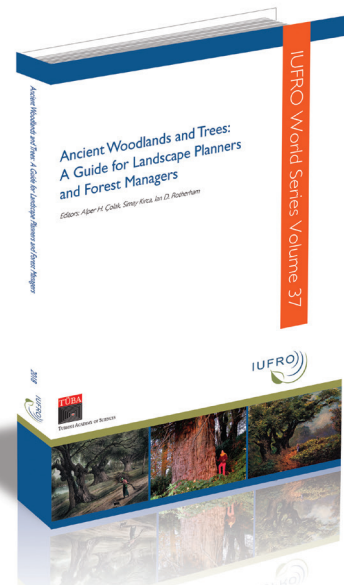


## TÜBA Honorary Member Prof. Kemal Karpas Passed Away



The world-renowned historian, TÜBA Honorary Member, Prof. Kemal Haşim Karpas, was buried in the Fatih Mosque complex on February 25, 2019.

After conducting the founding chairmanship of the Association of Central Asian Studies, he was also the coordinator of the Central Asian Studies Program at the University of Wisconsin. Prof. Karpas passed away on February 20, 2019 at the age of 96 at Madison Hospital in Wisconsin, USA.



ANCIENT WOODLANDS AND TREES: A GUIDE FOR  
LANDSCAPE PLANNERS AND FOREST MANAGERS

## TÜBA-Energy Storage Technologies Workshop and Panel Held



“Energy Storage Technologies Workshop and Panel” organized by TÜBA-Energy Working Group was hosted in Iğdır University on July 4-5, 2019.

TÜBA President Prof. Muzaffer Şeker, TÜBA Council Member and TR Presidency Education and Teaching Policies Board Committee Member Prof. Ahmet Cevat Acar, TÜBA-Energy Working Group Executive Prof. İbrahim Dinçer, TÜBA Principal Member and Iğdır University Rector Prof. M. Hakkı Alma, TÜBA Members and other academicians

and students who study on this issue, attended and contributed to the program.

After the workshop that consisted of sessions and panels, a social program was held. Within the framework of the social program, a trip was organized to the Salt Cave in the Tuzluca District of Iğdır and the Ishak Pasha Palace and the Ahmedi-Hani Museum in the Doğubayazıt district. In the visit to Nakhchivan, participants were hosted by the Consulate General of the Republic of Turkey Mehmet Emin Kiraz.



## President of The Belarusian National Academy of Sciences Prof. Gusakov Visited TÜBA

The President of the Belarusian National Academy of Sciences Prof. Vlademir Gusakov visited TÜBA on April 15, 2019.

TÜBA Principal Member Prof. Ahmet Nuri Yurdusev and Prof Dr. Gusakov exchanged views on the common areas of work, scientific activities and projects during the meeting. Prof. Vlademir Gusakov invited the Turkish scientific committee to Belarus.

## TÜBA Founding President Prof. Ayhan O. Çavdar on Her Last Journey



Distinguished Scientist and TÜBA Founding President, Retired Professor of Ankara University Faculty of Medicine Prof. Ayhan Çavdar, was sent off on her last journey on June 28, 2019.

The first funeral was held on June, 28 at the Morphology Building of Ankara University Faculty of Medicine for Prof. Çavdar, 89-year-old professor died in Baskent University Ankara Hospital. TÜBA President Prof. Muzaffer Şeker, TÜBA Council Member Prof. Ahmet Cevat Acar also attended the funeral.



Prof. Arif Hepbaşlı

## TÜBA 55<sup>th</sup> General Assembly was Held

The 55<sup>th</sup> TÜBA General Assembly was held on June 29, 2019 in Ankara with the participation of Academy members. As a result of voting in the General Assembly; Prof. Arif Hepbaşlı was elected as a Principal Member of the Academy.

The General Assembly held in The Green Park Ankara started with the speech of TÜBA President Prof. Muzaffer Şeker. Expressing that he is glad to be deemed worthy of the task by President Recep Tayyip Erdoğan, Prof. Şeker said that "We were very happy that the will of the Academy was realized, this issue was important. Because there was an election that was made and a will that emerged as a result of that election. Mr. President also expressed his will on this issue. Hopefully we will try to be worthy of the task. In addition, we will endeavor to represent the scientists of our country as institutional, and to work with national and international cooperation including all scientists."

Following the speech of Prof. Şeker, Prof. Ahmet Cevat Acar, TÜBA Former President and Council Member, gave information

about the works carried out since the 54<sup>th</sup> General Assembly.

In addition, TÜBA Principal Member Prof. Feridun Emecen and TÜBA Honorary Member TÜBA Prof. Emin Kansu gave a lecture. After the lectures, İlnur Inam, Head of Department from the General Directorate of R & D Incentives in Ministry of Science and Technology and Experts Eda Ünal and Mesut Koçak made a presentation to the members of the Academy on "Antarctic Scientific Research and Science Base Project".

### Who is Prof. Arif Hepbaşlı?

Arif Hepbaşlı has dealt with energy-related issues for 36 years, of which 10 years were spent working in various Turkish industries while the remainder has been spent teaching at different universities since 1996. He aims at attaining Industry (I), Profession Institutions (P) and University (U), namely Balanced IPU (nowadays RIC) simultaneously. His research has been involved with energy, exergy, exergoeconomic and exergoenvironmental analyses and assessments of energy-related systems, energy/exergy efficiency and management, exergizing sustainable cities, exergy-based performance assessment of buildings, ground-source heat pumps, utilization and potential of renewable energy sources and

sustainable energy technologies. Dr. Hepbaşlı is also a Certified Industrial Energy Manager in Turkey while he is author and co-author of over 660 papers (over 300 SCI-based papers) with academic footprints of 51, 56 and 69, and citations of 8506, 11109 and 15759 (as of August 6, 2019) on the Web of Science (WOS), Scopus and Google Scholar basis, respectively, on a national and international basis as well as several national and international books and book chapters. He has served as a consultant for the industry in cases involving his research area and is also a member in the International Advisory Board of various prestigious energy-related journals and an Associate Editor of Journal of Energy Engineering (ASCE) while also serving many energy journals and industrial projects as a reviewer. Dr. Hepbaşlı was elected a TÜBA Principal Member in the 55th biannual meeting on June 29, 2019 while he has been a member of Energy Working Group at TÜBA since February 16, 2017.



## Macedonian Academy of Sciences and Arts Visits TÜBA

Daim Ilazi visited TÜBA President Prof. Muzaffer Şeker on behalf of the Macedonian Academy of Sciences and Arts, on October 8, 2019.

The exchange program ideas, the common working areas, scientific activities and determination of projects. was discussed during the meeting under the scope of cooperation between two academies.

## 150<sup>th</sup> Anniversary of BAS



TÜBA President Prof. Muzaffer Şeker and TÜBA Principal Member Prof. Ahmet Nuri Yurdusev participated in the celebration of the 150th anniversary of the Bulgarian Academy of Sciences-BAS on October 12, 2019. The program started with the opening speech of BAS President Prof. Julian Revalski. BAS members as well as representatives of science academies and scientists from many countries around the world attended the ceremony.



## TÜBA President Prof. Muzaffer Şeker Attended 2019 World Science Forum

TÜBA President Prof. Dr. Muzaffer Şeker and Academy Council Member Prof. Dr. Ahmet Cevat Acar attended 2019 World Science Forum organized by Hungarian Academy of Sciences on 20-23 November 2019 in Budapest. At the ninth World Science Forum (WSF) more than 1100 researchers, policy and decision makers from 120 countries gathered to present and answer pressing ethical issues of scientific research. The meeting, organized by the Hungarian Academy of Sciences and WSF partner organizations, discussed the future role, funding mechanisms, the conduct and the dissemination of science in over fifty

sessions presented by 150 speakers during four days.

**TÜBA President Prof. Dr. Muzaffer Şeker: "We will make attempts to organize the next World Science Forum in Turkey."**

Prof. Şeker stated that valuable academics from many regions of the world came together at the World Science Forum. Here, they addressed and discussed different problems in the productive meetings. Stating that the main topics of this year are science, scientific ethics and individual responsibility, Prof. Şeker said: "The World Science Forum is a very important meeting.



The Forum will take place in South Africa in 2021. We desire to organize next forum in Turkey. We will make attempts for this purpose."

Prof. Şeker also visited Hungarian Academy of Sciences. Prof. Şeker attended a meeting with people from various Turkish institutions (TİKA, Maarif Foundation, DTİK, UID) organized by Yunus Emre Institute in Hungary. In this meeting, it was decided to be held a comprehensive conference with attendance of Turcologist scientists and Hungarian counterparts in Budapest.

## Cross-Cultural Meetings on behalf of TÜBA Honorary Member Prof. Andreas Tietze



TÜBA Honorary Member Prof. Andreas Tietze was commemorated at the Cross-Cultural Meetings in Turkish Language program at the Graz University on April 11, 2019; and at the Embassy of the Republic of Turkey on April 12, 2019. Tietze's Historical and etymological Turkey Turkish Dictionary published by TÜBA was introduced.

With the cooperation of University of Graz and Altinbas University, the first meeting was held at the Department of Translation

Studies (Turkish) of the University of Graz, and the second was held in Vienna Embassy of the Republic of Turkey. The multicultural meeting was held as a brainstorming format at University of Graz, which is the only department providing Turkish translation in Austria, with the support of Turkish Airlines (THY) and Denizbank AG, for introduction of the dictionary, which is the product of a meticulous study of Prof Tietze, which he gave a large part of his life and includes the examination of a large number of books

from a period of 700 years by means of text scanning, digitizing the dictionary, and connectivity with digital technologies through current situation analysis.

The meeting, which Tietze family also attended, was opened with the speech of Turkish Ambassador to Vienna Ümit Yardım after the concert of Pianist Nazlı Hacıoğlu. The program ended with piano concerts after scientific presentations.

## TÜBA - “3<sup>rd</sup> International Law, Diplomacy, and Cooperation” Summer School was Held



The Union of National Academies of Sciences of the Turkic World (TDUBAB) Summer School on International Law, Diplomacy and Cooperation was held in TÜBA Rabi Medrese, which is located in Suleymaniye Complex in Istanbul between July 22-26, 2019 with the hosting of TÜBA.

Totally 27 young scientists from 11 countries, 5 young scientists from Azerbaijan, 3 young scientists from Bosnia and Herzegovina, Mongolia, Macedonia, Kyrgyzstan and Kazakhstan, 2 young scientists from Uzbekistan and Turkey, and 1 young scientist from Pakistan, Montenegro and Jordan, participated in the 5-day program that was supported by Turkish Cooperation and Coordination Agency (TIKA).

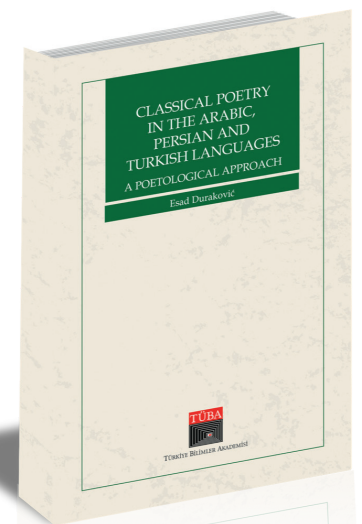
The school was started with the lecture given by TÜBA Principal Member and METU Department of International Relations Faculty Member Prof. Ahmet Yurdusev titled as “Diplomacy: Basic Concepts and Historical Development” and continued with the lecture given by Bilkent University Department of International Relations Faculty Member Prof. Pınar Bilgin.

The other lectures were “History of Economic Cooperation: A Global Perspective” by TÜBA Associate Member and Istanbul Sabahattin Zaim University Rector Prof. Mehmet Bulut; “International Economic Cooperation and



Regional Integration” by TÜBA Associate Member and Ibn Haldun University Faculty Member Prof. Ekrem Tatoğlu; “Forms of Diplomatic Cooperation” by METU Faculty Member Prof. Oktay F. Tanrısever; “Turkish Foreign Policy and Grand Strategy” by TÜBA-GEBİP Member and Koç University Faculty Member Assoc. Prof. Şener Aktürk; “International Organizations and International Cooperation” by TÜBA Principal Member and Koç University Faculty Member Prof. Ziya Öniş; “International Law: Basic Concepts and Historical Development” by Ankara Yıldırım Beyazıt University Faculty Member Prof. Yücel Acar; “Science Diplomacy and International Cooperation in Higher Education” by Higher Education Council Member Prof. Zeliha Koçak Tufan, and “Cultural Diplomacy and Civil Society Associations” by Maarif Foundation President and Ankara Yıldırım Beyazıt University Faculty Member Prof. Birol Akgün.

Following the outcome and evaluation meeting, the participants took their certificates at the end of the program.



CLASSICAL POETRY IN THE ARABIC, PERSIAN AND TURKISH LANGUAGES A POETOLOGICAL APPROACH

## Oxygen Sensing Wins 2019 Nobel Prize in Medicine

TÜBA Principal Member  
Prof. Tayfun Özçelik

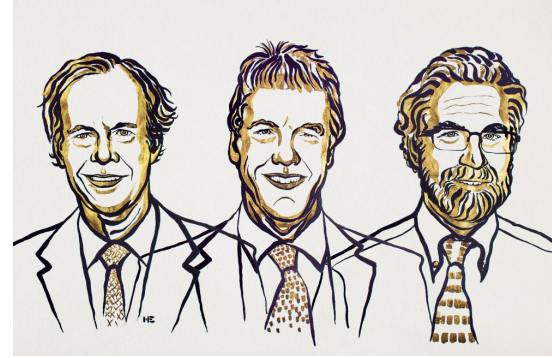
The 2019 Nobel prize in medicine has been awarded to scientists **“for their discoveries of how cells sense and adapt to oxygen availability”**. The Nobel Committee announced at Karolinska Institute that Sir Peter J. Ratcliffe (Oxford University), Gregg L. Semenza (Johns Hopkins University) and William G. Kaelin Jr. (Dana-Farber Cancer Institute) shared the prestigious prize.

For more than three decades, three researchers independently and meticulously used genetics and biochemical approaches to decipher the mechanisms that cells evolved to sense oxygen levels in tissues. Their discoveries made fundamental contributions to the understanding and treatment of diseases as diverse as cancer, anemia, heart attacks and stroke. As physician-scientists, the three researchers first made clinical observations and then built upon them through biochemical studies. For example, as a geneticist and pediatrician, Dr. Semenza focused on the production of erythropoietin in liver and kidney tissues. Together with his students, he identified a sequence-specific binding site termed hypoxia-response element (HRE) and subsequently cloned a gene that acts as the transcription factor, which is HIF-1 (hypoxia inducible factor 1). He then purified this factor using biochemical methods and observed that it has a heterodimeric structure. A component of this structure, HIF-1 alpha is transcribed in response to the levels of oxygen in tissues. The other component of the structure, HIF-1 beta is constitutively transcribed. The

complex not only regulates erythropoietin but also targets other factors that are critical for cellular and systemic response to hypoxia. A prime example is VEGF (vascular endothelial growth factor), which plays a critical role in the formation of new blood vessels.

Meanwhile, Dr. Kaelin's research focused on the identification of the von Hippel-Lindau (VHL) gene, which causes a specific syndrome when it mutates. The syndrome is characterized by tumors in the kidneys and cerebellar hemangioblastomas. These rare tumors are highly vascular in nature and the affected patients may also suffer from a type of blood disease named polycythemia vera. As an internist and oncologist, Dr. Kaelin noticed that VHL associated tumors are very rich in vascular structures. Also, patients frequently presented with polycythemia vera. Through studies in cell lines and model organisms, it was subsequently shown that there is a relationship between HIF-1 and VHL genes. The regulation of “hypoxia-inducible genes” requires the proper assembly of the VHL complex. Using X-ray crystallography, the VHL complex was also associated with the E3 ubiquitin ligase. The ubiquitin complex, discovery of which was awarded the 2004 Nobel prize in Chemistry, is central to protein degradation in cells.

Dr. Peter Ratcliffe's discoveries tied together these discoveries from a unique perspective. As a nephrologist, Dr. Ratcliffe was studying how kidneys sense oxygen and how systemic erythropoietin production is

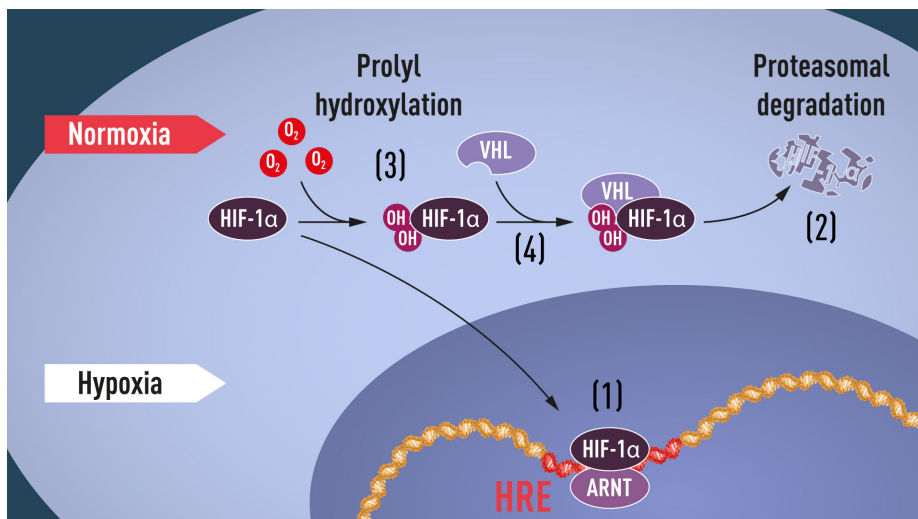


regulated. Through his studies, the specific cell types that sense hypoxia and trigger erythropoietin synthesis were identified. It was thus unequivocally shown that HIF is the universal oxygen sensing system.

The scientific community welcomed the news that Peter Ratcliffe, William Kaelin and Gregg Semenza are the recipients of the 2019 Nobel prize in medicine. Oxygen is absolutely required for many different life forms. They cannot live in oxygen deprived environments. Ironically, too much oxygen is deadly. From this perspective, it is absolutely necessary that cells evolve a system that senses oxygen levels. And the three Nobel laureates have comprehensively defined the genetic mechanisms that enable cells to sense and respond to changing oxygen levels in the environment.

These seminal discoveries have practical applications. For example, this is how we understand the adaptation of the body to high altitudes or the contribution of oxygen to cell proliferation in cancerous tissues. Thus we have now a complete and text-book clear understanding of oxygen regulation and its central role in life.

Upon the discovery of oxygen sensing and regulation mechanisms, new treatment modalities that target the genetic mechanisms of oxygen metabolism were triggered for cancer therapy. Prolyl hydroxylase inhibitors target the inhibition of VHL gene with HIF and activate a degradation process. Current clinical trials investigate the efficacy of these inhibitors in the treatment of patients with chronic anemia and chronic kidney disease. China is the first to approve the use of these drugs in 2018.





## “Mustafa Prize” to TÜBA Member Prof. Umran S. İnan

TÜBA Honorary Member and Koç University Rector, Prof. Umran Savaş İnan was awarded with the 2019 Mustafa Prize at the ceremony organized by Mustafa Science and Technology Foundation in Tehran.

Koç University Rector Prof. Umran S. İnan was awarded the Mustafa Prize for his studies in the field of ionospheric and atmospheric physics and his contributions to science. The ceremony was held on November 9, 2019. Over 100 scientist from various countries attended the ceremony.

Taking this award at the ceremony, Prof. Umran İnan said: “The Mustafa Prize plays an important role in the universalization of science. I am very proud to be deemed worthy of this important prize that supports the contributions of the Islamic world to science in this period when the world has entered a new era in scientific terms. I am also very pleased that my research, which we have been working on for years with a large team and my doctoral students at Stanford University, has been awarded with such a prize.”

Hassan Zohour, President of the Mustafa Prize Scientific Committee, announced that the call for the 2019 Mustafa Prize was sent to 202 academic centers and 512 scientists from 52 countries. 1649 application of the scientists who answered the call were evaluated by the jury. The jury identified 192 works from 1649 works and 29 works from these 192 works were selected for the final round.

## Special Issue from IJCRE to TÜBA Honorary Member Prof. Timur Doğu



International Journal of Chemical Reactor Engineering (IJCRE) has published a special issue on behalf of TÜBA Academy Member and METU Department of Chemical Engineering Faculty Member Prof. Timur Doğu for his contributions to the field of Chemical Reaction Engineering.

The preface to the special issues (volume 17; 5. and 6. issues) for Prof. Timur Doğu and his wife Prof. Gülşen Doğu was written by the editor of the magazine, Prof. Hugo de Lasa.



## An Important Task to TÜBA Principal Member Prof. K. Arzum Erdem Gürsan

Prof. K. Arzum Erdem Gürsan, TÜBA Principal Member and Ege University Faculty of Pharmacy Member, was elected to the Advisory Board of the Scientific and Technological Research Council of Turkey (TÜBİTAK).

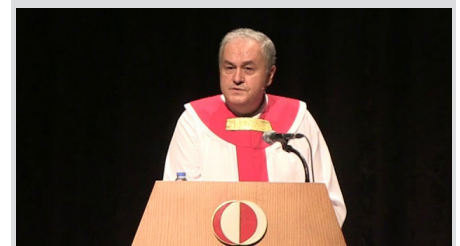


## Honorary Professorship to Prof. Sadık Kakaç from Xi’an Jiaotong University

TÜBA Honorary Member, Prof. Sadık Kakaç was awarded Honorary Professorship on May 11, 2019 by the oldest university of China, Xi’an Jiaotong University (XJTU).

Prof. Kakaç has received this honor for his outstanding achievements and academic reputation with his high quality of research on transient and steady-state laminar flows, turbulent forced convection heat transfer, two-phase flow instabilities, fuel-cells modelling, and micro heat transfer with slip flow.

## Honorary Doctorate from Kazan State University to TÜBA Principal Member Prof. M. Verşan Kök



TÜBA Principal Member Prof. Mustafa Verşan Kök, was awarded with the honorary doctorate from Kazan State University. “Honorary Doctorate” was awarded to him at the ceremony held on August 20, 2019 at METU Culture and Congress Center.



## 2019 Presidential Culture and Arts Grand Awards has been Announced

TÜBA Honorary Member Prof. Ahmet Yaşar Ocak has received the 2019 Presidential Culture and Arts Grand Awards in the field of social sciences.

Nuri Pakdil in literature, MFÖ in music, Mesut Uçakan in cinema, Devrim Erbil in painting, Fuat Başar in traditional arts, Doğan Kuban in architecture and Prof. Ahmet Yaşar Ocak in social sciences have received the 2019 Presidential Culture and Arts Grand Awards.

Prof. Ocak, faculty member at TOBB ETÜ, was awarded in the field of social sciences for his contributions to history and cultural historiography.



## TÜBA Associate Member Prof. Demirköz Selected as 2019 Young Global Leader

Academy Associate Member and METU Faculty Member Prof. Melahat Bilge Demirköz has been selected for the Forum of Young Global Leaders, initiated by the World Economic Forum (WEF).

World Economic Forum gave Prof. Demirköz name in the list of 2019 Young World Leaders for her scientific studies, contribution to Turkey's CERN Associate Membership and scientific diplomacy conducted in Turkey. In addition to Prof Demirköz; 127 people, under the age of 40, who stand out with their leading qualities in many fields such as sports, arts and science, were selected.



## "Georg Forster Research Award" to TÜBA Principal Member Prof. Aral Okay

Prof. Dr. Aral Okay, TÜBA Principal Member and Istanbul Technical University (ITU) Faculty member, has received Georg Forster Research Award from the Alexander Von Humboldt Foundation in Germany for his lifelong scientific contributions.

Prof. Dr. Okay took award for his studies on geology of Turkey. The award will be presented at the annual meeting of Alexander von Humboldt Foundation to be held in Berlin.

Stating that his researches aim to assert Turkey's geological evolution, Prof. Okay said: "Geology has an important historical dimension. Just as history studies the changing states, civilizations, social and administrative structure in a region, geology tries to recognize and understand the changes that have taken place in the world over a much longer period of time. The main data of historians are written documents and geologists are rocks. By examining rocks and fossils, it is possible to obtain detailed information about the seas, oceans, atmosphere, volcanoes, plateaus that existed in the past and how they changed in time." Emphasizing that he is a TÜBA Principal Member, he said he was pleased to receive award like his brother Prof. Oğuz Okay who received the same award in 2014.

The Georg Forster Research Award is given to researchers who contribute to science at the international level with their discoveries and new theories and bring solutions to the problems of developing countries. The award is given for researches throughout the scientist's working life. The award, which covers all areas of scientific research, is awarded to three to eight researchers worldwide each year.

## TÜBA Principal Member Prof. Ekmel Özbay Was Selected as OSA Fellow



TÜBA Principal Member and Bilkent University Nanotechnology Research Center (NANOTAM) President Prof. Ekmel Özbay was granted the title of Fellow by the American Society of Optical Society (The Optical Society / OSA).



## ISIF'19 Patent Award to Invention of TÜBA Council Member Prof. Fikretin Şahin and His Team

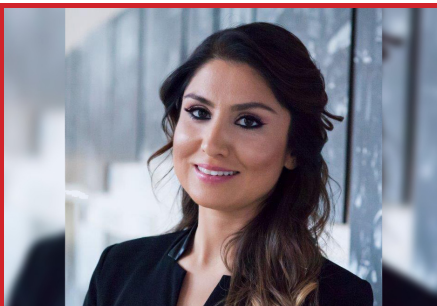
Patent given by Turkish Patent and Trademark Agency for "Antimicrobial and Antiviral Hygienic Products" works of TÜBA Council Member and Yeditepe University Faculty Member Prof. Fikretin Şahin and his team was awarded the Bronze Medal in the 4th Istanbul International Invention Fair (ISIF'19).



## “Honorary Doctorate” from Ankara University to TÜBA Academy Prize Laurate Prof. Gabor Hamza

TÜBA Academy Prize Laurate Prof. Gabor Hamza and other three Hungarian scientists were awarded an Honorary Doctorate at the ceremony organized by Ankara University (AU) on October 23, 2019.

TÜBA President Prof. Muzaffer Şeker, Ankara University Rector Prof. Erkan İbiş, Ambassador of Hungary to Ankara Viktor Mátis, deans and senate members attended the ceremony.



## TÜBA-GEBİP Member Assoc. Prof. Saadet Yüksel Was Elected as Judge Representing Turkey at ECtHR

2018 TÜBA-GEBİP Award Owner and head of Constitutional Law at Istanbul University Assoc. Prof. Saadet Yüksel was elected by Parliamentary Assembly of the Council of Europe (PACE)'s Election Commission for Judges to the European Court of Human Rights (ECtHR) as the representative judge for Turkey. Assoc. Prof. Yüksel will serve for the next nine years behalf of Turkey.

## TÜBA Principal Member Prof. Gürsan Re-elected to AASSA- WISE Committee



TÜBA Principal Member and Ege University Faculty of Pharmacy Faculty Member Prof. Kadriye Arzum Erdem Gürsan, re-elected for “Women in Science and Engineering-WISE” Committee the 2019-2021 period.

WISE Committee works for identifying women's problems, explore government's incentive policies and scientific role for women's advancement in science, and identifying best practices in promoting women's role at AASSA member countries. The AASSA-WISE Committee also focuses on finding the right methods to encourage women to become professionals in science and technology.



## “2018 Young Scientist Award” to TÜBA-GEBİP Member Assoc. Prof. Evren Mutlugün

2018 Young Scientist Award given by the Science Heroes Association (BKD) was presented to 2017 TÜBA-GEBİP Member and Abdullah Gül University (AGU) Faculty of Engineering Department of Electrical and Electronics Engineering Faculty Member Assoc. Prof. Evren Mutlugün at the ceremony on April 24, 2019 at Pera Museum Auditorium.



## “8 Awards” to TÜBA Members from TÜBİTAK

TÜBA Principal Member Prof. Ahmet Gül has received 2019 TÜBİTAK Science Award in basic sciences and TÜBA Principal Member Prof. Kazım Şahin has received 2019 TÜBİTAK Science Award in health sciences.

TÜBA-GEBİP Member Assoc. Prof. Uğur Bozkaya has received Incentive Award in basic sciences, TÜBA-GEBİP Members Assoc. Prof. Alper Uzun and Asst. Prof. Emine Ülkü Sarıtaş Çukur have received Incentive Award in engineering sciences, TÜBA-GEBİP Member Nurhan Özlü Sıcakkan has received Incentive Award in health sciences, and TÜBA-GEBİP Members Assoc. Prof. Gül Günaydın and Assoc. Prof. Şener Aktürk have received Incentive Award in social sciences.

## 2019 Aziz Sancar Science, Service and Incentive Awards to TÜBA Members



TÜBA Principal Member Prof. Özcan Erel, TÜBA-GEBİP Members Assoc. Prof. Nurcan Tunçbağ and Assoc. Prof. Engin Özçivici were awarded with 2019 Aziz Sancar Science, Service and Incentive Awards given on behalf of Nobel Laureate and TÜBA Honorary Member Prof. Aziz Sancar.

Award winner scientist took their awards from President Recep Tayyip Erdoğan at the ceremony on October 31, 2019 under the auspices of the Presidency and held by Turkey Institutes of Health Administration (TÜSEB).

Stating that the contribution to science is the contribution to humanity, TÜBA President Prof. Muzaffer Şeker said that the works done from all over the world is the common denominator of humanity in this direction. He also congratulated Academy Principal Member Prof. Erel and TÜBA-GEBİP Members Assoc. Prof. Tunçbağ and Assoc. Prof. Özçivici on behalf of Academy.

## TÜBA-GEBİP Member Assoc. Prof. Gazi Huri has been Selected as "ABJS-Member"



2018 TÜBA-GEBİP Member and Hacettepe University Faculty of Medicine Department of Orthopedics & Traumatology Faculty Member Assoc. Prof. Gazi Huri has been selected as a member of Association of Bone and Joint Surgeons-ABJS.

Orthopedics & Traumatology Specialist Dr. Gazi Huri, who took the international patent with his invention that extends bone length up to 1 centimeter a day and 4 centimeters in total, has been elected as a member of ABJS, at where surgeons direct orthopedics science in the world.



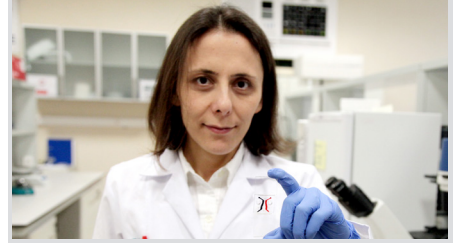
## "EMBO YIP Award" to TÜBA-GEBİP Award Owner Dr. E. Nur Fırat Karalar

TÜBA-GEBİP member and Koç University Faculty Member Elif Nur Fırat Karalar became the first Turkish scientist to be selected for the Young Investigators Program of the European Molecular Biology Organization (EMBO).

Since 2000, 400 scientists have been selected for the EMBO Young Researchers Program, which promises a promising future in the field of life sciences, with outstanding quality and international studies. Dr. Elif Nur Fırat Karalar was selected one of the 27 young life scientists selected for this program with her works on the formation and functions of cell structures that play an important role in cell division and communication.

Dr. Elif Nur Fırat Karalar will join the Young Investigator Network of 129 people through the EMBO Young Researchers Program. She will start her four-year term in January 2020. She and her team will receive financial and practical support from the European Organization for Molecular Biology. Dr. Elif Nur Fırat Karalar will also have the right to benefit from the network.

## "Deep Tech Pioneer" Title to "Initio Biomedical"



TÜBA-GEBİP Member and Izmir Institute of Technology Department of Molecular Biology and Genetics Faculty Member Prof. Devrim Okvur has received "Deep Tech Pioneer" title at Hello Tomorrow Challenge with her company "Initio Biomedical" that she founded in Teknopark Izmir and took a lot of award with it.

Initio Biomedical has become the pride of Turkey at the world's largest science and high-tech competition on entrepreneurs in the early stages. 750 initiatives were selected from more than 5000 applications from 128 countries in the competition held for the 6th time in 2019.

The Global Summit will be held on March 12-13, 2020 in Paris, where Prof. Devrim Pesen Okvur will represent IYTE and Turkey.



## "Science Medal" from İBG to TÜBA-GEBİP Member Assoc. Prof. Tamer Önder

TÜBA-GEBİP Member and Koç University Faculty Member Assoc. Prof. Tamer Önder was awarded with "Science Medal" given first time by Izmir Biomedicine and Genome Center (İBG) on behalf of Gazi Mustafa Kemal Atatürk at November 10 - İBG Science Day.

The program started with the welcoming speech of Prof. Mehmet Öztürk and the concert of Pianist Arya Su Gülenç. After the conferences and speeches, the owner of the medal Assoc. Prof. Tamer Önder made his scientific speech. TÜBA Principal Member Prof. Gökhan Hotamışlıgil also gave a conference titled as "Architectural Regulation is Central for Homeostasis"

## The Turkish Academy of Sciences: on TÜBA

The Turkish Academy of Sciences was founded as a national academy comprising all fields of science in 1993. However, there has been a long tradition of academy like institutions in Turkey. Semaniye Madrasah was the earliest examples of it in the second half of the fifteenth century. "Encümen-i Daniş" (Society of Scholars), founded in 1851, is regarded as the first Turkish Academy of Science in the modern sense. This institution, which was modeled after the French Academy of Sciences and continued until 1862, principally worked for the preparation of textbooks for Darülfünûn (Istanbul University) that would be founded in the following years. The Ottoman Society of Science (Cemiyet-i İlmîyye-i Osmaniyye), founded in 1861, was another institution fulfilling the functions of an academy. This institution, which had 38 members in natural sciences and published the first journal in natural sciences (Mecmua-i Fünun), lasted until 1866. The Ottoman Historical Society (Tarih-i Osmanî Encümeni), founded in 1909, Turkish Language Society (Türk Dil Kurumu - TDK), founded in 1932 and Turkish Historical Society (Türk Tarih Kurumu - TTK), founded in 1931 were the academies like institutions. The present academy, comprising all fields of sciences, was founded with a statutory decree in 1993.

According to the Statutory Decree No. 497, TÜBA is a science institution with full public personality and has scientific, administrative and financial autonomy. Although Academy has opportunities to generate income and accept donations from private companies and individuals, it is largely funded by the public funds.

### Vision and Mission of Academy

TÜBA aims to be comprehensive science academy that guides the science policies for the country, encourages and promotes scientific research and acts as an active and respected partner of world science community.

### Aims

The aims of TÜBA are to promote and appreciate the scientists and their works based on the scientific merit, to encourage being scientist, to guide the dissemination of scientific approach and ideas in society, to make studies to provide science-based consultancy services related to science policies, to be an active partner of world science community, to take part for the development and effective use of Turkish as language of science and to be an Academy that implements successfully the concept of institutional governance.

The principal responsibilities of TÜBA are to make analysis and consultation services in order to determine scientific issues and

scientific priorities, to provide the dissemination of scientific approaches and ideas in society, to propose legislative changes to government about social status of Turkish scientists and researchers, living standards, income and the special facilities and privileges of necessities for this type of activities, to ensure the recognition and acceptance of the importance of science by public awareness, to give awards to encourage being scientist and to operate all kinds of activities for the realization of all these objectives and the fulfillment of duties.

The most important feature differentiates the Academy from institutions that undertake similar duties about science is its configuration based on scientific merit. In this regard, academy members are selected based on merit from the scientists who come forward with their national and international scientific reputation and outstanding achievements.

TÜBA conducts its works greatly with the voluntary participation and contributions of scientists notably its members.

### TÜBA General Assembly

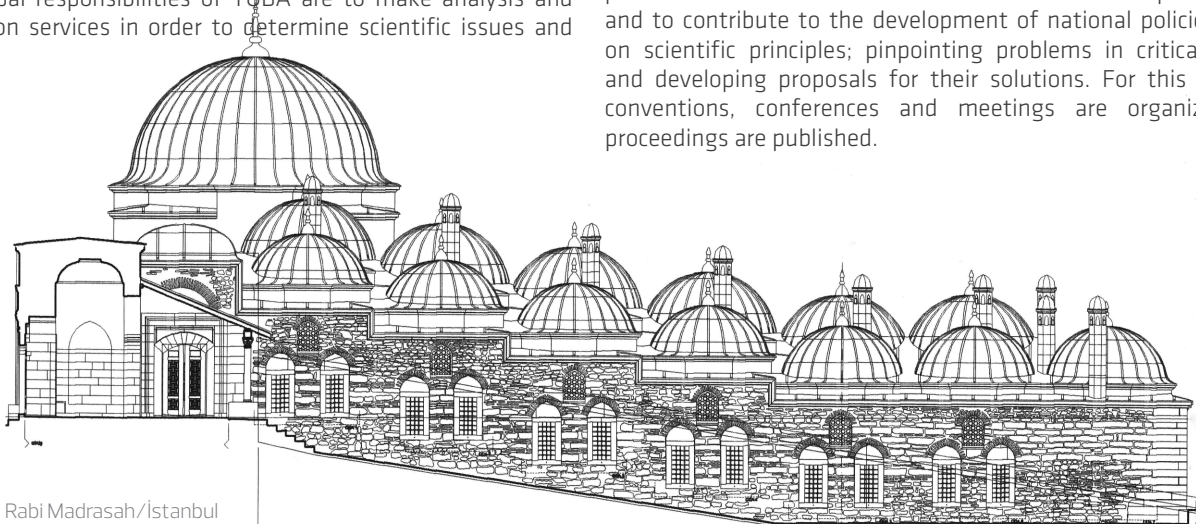
General Assembly, consisted of Academy members, convenes at least once a year, usually twice a year. The Academy has a total of 190 members, comprising 94 Principal, 49 Associate and 47 honorary members/members emeriti. The assembly is the highest body of the Academy, and it elects new academy members, members of the Academy Council and three nominees for the Presidency.

### Academy Council

The Academy Council, consisting of ten members and the President of the Academy, all elected for three years, is the executive body of Academy. The Council convenes every month and discusses and decides upon the issues on the agenda.

### Activities of TÜBA

The activities of the Academy are carried out in two main categories. The first category comprises incentive programmes which have the objective of encouraging scientific pursuit by donation of scholarships, bursaries, awards and varying degrees of support for enterprises deemed worthy. All of the above are aimed at promoting research, encouraging the youth towards scholarly pursuits, honouring dedicated scientists, and, above all, establishing norms of scientific excellence. In the second category, the primary and most important endeavour is to create a scientific platform as a basis for communication and debate on public issues and to contribute to the development of national policies based on scientific principles; pinpointing problems in critical issues; and developing proposals for their solutions. For this purpose, conventions, conferences and meetings are organized and proceedings are published.



Rabi Madrasah/Istanbul