



**International Association
of Geodesy**

Newsletter

April 2020

Editor: Gyula Tóth

IAG Communication and Outreach Branch
Department of Geodesy and Surveying
Budapest University of Technology and Economics
H-1521 Budapest, Hungary

Information Service of the International Association of Geodesy

<http://www.iag-aig.org>

newsletter@iag-aig.org

Contents

General Announcements	3
In Celebration of the 70th Birthday of Academician, Professor Fakhreddin A. Kadirov.....	3
Meeting Announcements	4
EUREF 2020 Symposium postponed for one year.....	4
Meetings Calendar	4
IAG Sponsored Meetings	4
IGS Workshop "IGS 2020: Science from Earth to Space"	4
43rd COSPAR Scientific Assembly.....	4
2nd International Symposium of Commission 4: Positioning and Applications.....	4
International Workshop on GNSS Ionosphere (IWGI2020).....	4
International DORIS Service Workshop	5
22nd International Workshop on Laser Ranging.....	5
EUREF 2021 Symposium	5
19th International Symposium on Geodynamics and Earth Tides (G-ET Symposium 2020).....	5
IAG Scientific Assembly.....	5
IAG Related Meetings	5
EGU General Assembly 2020	5
FIG Working Week 2020.....	5
AOGS2020 17th Annual Meeting.....	5
International Symposium on Satellite Navigation (ISSN 2020).....	5
22nd meeting of the Consultative Committee for Time and Frequency (CCTF).....	5
Obituary	5
Bogdan Ney (1935-2020).....	5

The *IAG Newsletter* is under the editorial responsibility of the *Communication and Outreach Branch* (COB) of the IAG.

It is an open forum and contributors are welcome to send material (preferably in electronic form) to the IAG COB (newsletter@iag-aig.org). These contributions should complement information sent by IAG officials or by IAG symposia organizers (reports and announcements). The *IAG Newsletter* is published monthly. It is available in different formats from the IAG new internet site: <http://www.iag-aig.org>

Each *IAG Newsletter* includes several of the following topics:

- I. news from the Bureau Members
- II. general information
- III. reports of IAG symposia
- IV. reports by commissions, special commissions or study groups
- V. symposia announcements
- VI. book reviews
- VII. fast bibliography

General Announcements

In Celebration of the 70th Birthday of Academician, Professor Fakhraddin A. Kadirov



Academician, Professor Fakhraddin A. Kadirov (Gadirov) was born on July 19, 1950 in Sheki region, Azerbaijan. In 1972 he graduated from the physics faculty of the Azerbaijan State University (now Baku State University), received his PhD in Geophysics in 1984, his DSc degree in Geophysics in 2002 in Azerbaijan and professorship of Geophysics in 2007. In 2007 he was elected as a corresponding member of Azerbaijan National Academy of Sciences (ANAS), and in 2014 a full (active) member of ANAS. He started his academic career since 1974 in the "Gravimetry" laboratory of the Institute of Geology (now Geology and Geophysics Institute) of Azerbaijan National Academy of Sciences (ANAS). Before that, he was in full time physics teacher's position at Baku State University, Azerbaijan. Besides, he was a professor at the "Earthquake Research Center" of Ataturk University, Turkey in 1992-1995, and at the "Geophysical Engineering" department of the Black

Sea Technical University, Turkey in 1996-1998 within the framework of the mutual scientific agreement between Azerbaijan National Academy of Sciences and Educational Council of the Republic of Turkey. At Geology Institute, he headed "Gravimetry" laboratory during 1989-2003, "Geotectonics and geodynamics" department in 2005-2007, the department of "Geodynamics and seismology" in 2008-2015, and since 2015 newly formed "Geodynamics and space geodesy" department. Since 2008 until the present time, Professor Kadirov is the head of the Earth Physics section of the Institute. He is also presently the head of the Azerbaijan National Information Center of the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO), which operates by Geology and Geophysics Institute of ANAS.

Academician Kadirov is one of the most outstanding scientists-geophysicists in Azerbaijan today. He also ranks as one of the most prominent geodynamicists in the country. He has made immense contributions of great significance to several facets of geophysics, tectonic geodesy and geodynamics. He wrote many important papers and reviews on these subjects. Having returned from the Massachusetts Institute of Technology (MIT) between 2000 and 2001, he launched GPS technology in Azerbaijan, applying it in studying the geodynamic and kinematic conditions of the Caucasus-Caspian region, geodynamic safety of oil and gas fields and energy corridors within the concept of plate tectonics.

Professor Kadirov's contributions to geophysics cover a wide range of topics that include numerical analysis of geophysical fields and study of spatio-temporal distribution of regularities in geophysics. His immense contributions helped in the understanding of important phenomena and relationships in modern crustal movements of the Caucasus-Caspian region, modern kinematics and modeling of depth structure. His research in the study of earthquakes and faults by fractal and statistical methods is significant.

He has proposed the existence of the Caucasus plate and its counterclockwise rotation, and a new geodynamic model of the territory of Azerbaijan based on the concept of plate tectonics. Based on the analysis of gravimetric observations, he has shown fluctuations occurred in the variations of the gravitational field before a strong earthquake. He has been theoretically working on the study of the processes of gravitational equilibrium in the sedimentary layers of the oil and gas areas of Azerbaijan and has developed a model of convection and activation of mud volcanoes within fluid migration.

His long and illustrious career has led to about 250 research papers, including monograph "Model of gravitational field and depth structure of Azerbaijan" published in Russian, "Geology of Azerbaijan", volumes IV, V and VII, "Hydrocarbon systems of the South Caspian Basin" in English. He is co-author of the two-volume "Geosciences of Azerbaijan" and other books published by Springer Publishing House, as well as gravitational map of the Caspian region. His works are widely cited in well-known international peer-reviewed journals. Many honors and awards have been conferred on Professor Kadirov during the years of his dedication to science and research. In 2010 he has been awarded the certificate of honor of ANAS and in 2015 he has been awarded the Order of Glory from the President of Azerbaijan. He has been awarded honorary professor degree of «Seismology and the physics of the Earth» department of the geology faculty from his alma mater Baku State University. He has built many departments of great quality in Geology and Geophysics Institute of ANAS, has trained 14 PhDs and 2 DScs in geophysics.

He is a fellow of all the major academies of the world including the European Association of Geologists and Engineers (EAGE), the American Association of Petroleum Geologists (AAPG), the American Geophysical Union (AGU), the European Union of Earth Sciences (EGU) and the Azerbaijan Geophysical Society. Since

2009, he has been **the national representative of the International Geodesy Association of Azerbaijan National Committee of IUGG**, and the head of Scientific Council of Geodesy and Geophysics of the International Association of Academies of Sciences (in Russian, MAAN).

He is also the Deputy Editor of ANAS Transactions, Earth Sciences journal published in Azerbaijan, a member of editorial board of "Seismic Observations in Azerbaijan", "Geophysics News in Azerbaijan", "Journal of Engineering Sciences" of Pamukkale University and reviewer of European "Geophysical Prospecting" and "Geodynamics" and others.

Academician Kadirov has been a project manager in many international and local consortia in Azerbaijan. He has repeatedly delivered scientific reports at international scientific conferences in the United States and Europe, and has been awarded a number of scientific grants from the US National Science Foundation, NSF, CRDF, STCU, EAGE and others.

During 2013-2019, academician Kadirov was a member of the Presidium of ANAS and academic secretary of the Department of Earth Sciences Division of ANAS. Presently, he is the Deputy Chairman of the Scientific Council of Earth Sciences Division of ANAS. In 2020, Professor Kadirov was appointed Director of the Institute of Oil and Gas Institute by the decision of the Board of ANAS.

The most important and characteristic point of academician, professor Kadirov is his ability to think aiming to generate new ideas and concepts which are truly original.

Gulam Babayev

Meeting Announcements

EUREF 2020 Symposium postponed for one year

Considering the wide spread of COVID-19 in Europe, the EUREF Governing Board and the Local Organizing Committee have agreed to postpone the EUREF 2020 symposium in Ljubljana, Slovenia for one year.

We are pleased to announce that the EUREF 2021 symposium will be held from **26th - 28th of May 2021** in Ljubljana, Slovenia. Further information will be available.

Martin Lidberg

Meetings Calendar

IAG Sponsored Meetings

IGS Workshop "IGS 2020: Science from Earth to Space"

August 10 –14, 2020, Boulder, CO, USA

URL: <https://www.igscb.org/event/>

43rd COSPAR Scientific Assembly

August 15 –22, 2020, Sydney, Australia

URL: <http://www.cospar2020.org/>

2nd International Symposium of Commission 4: Positioning and Applications

September 7 –11, 2020, Potsdam, Germany

URL: <https://www.iag-aig.org/events/17>

International Workshop on GNSS Ionosphere (IWGI2020)

October 19 –21, 2020, Shanghai, China

URL: <http://202.127.29.4/geodesy/iwgi2020/index.html>

International DORIS Service Workshop

October 19 –21, 2020, Venice, Italy

URL: <http://ostst-altimetry-2020.com/home/>

22nd International Workshop on Laser Ranging

November 2 – 6, 2020, Kunming, China

URL: <https://ilrs.cddis.eosdis.nasa.gov/about/meetings.html>

EUREF 2021 Symposium

May 26 –28, 2021, Ljubljana, Slovenia

URL: <https://euref2020.si/>

19th International Symposium on Geodynamics and Earth Tides (G-ET Symposium 2020)

June 22 –26, 2021, Wuhan, China

URL: <http://get2020.csp.escience.cn/>

IAG Scientific Assembly

June 28 – July 3, 2021, Beijing, China

URL: <http://www.iugg.org/meetings/assemblies.php>

IAG Related Meetings

EGU General Assembly 2020

May 3-8, 2020, Vienna, Austria

URL: <https://egu2020.eu/>

FIG Working Week 2020

May 10-14, 2020, Amsterdam, the Netherlands

URL: <http://www.fig.net/fig2020/>

AOGS2020 17th Annual Meeting

June 28 – July 4, 2020, Gangwon, South Korea

URL: <http://www.asiaoceania.org/aogs2020/public.asp?page=home.html>

International Symposium on Satellite Navigation (ISSN 2020)

October 21 – 24, 2020, Nanjing, China

URL: <http://issn2020.csp.escience.cn/dct/page/1>

22nd meeting of the Consultative Committee for Time and Frequency (CCTF)

October 26 –30, 2020, Sèvres, France

URL: <https://www.iers.org/ IERS/EN/NewsMeetings/ForthcomingMeetings/forthcoming.html>

Obituary

Bogdan Ney (1935-2020)



Bogdan Ney, age 85, passed away in Warsaw, on 23rd March 2020. He was one of the outstanding geodesists with the wide reputation in the scientific community.

Bogdan Ney was born on February 3, 1935 in Pinsk, four and a half years before the occupation of his hometown by Soviet Russia. After graduating from high school in Tarnow in 1952, he attended the AGH University of Science and Technology in Cracow where at the Department of Mining Surveying he received his MsS degree in 1957. At the same faculty he obtained his PhD degree in 1963 presenting the thesis entitled "Analysis of some criteria for shifts of surveying benchmarks based on surveying measurements" and habilitation (Doctor of Science) in 1977 after presentation of the thesis entitled "The method of determining the horizontal deformations of surveying networks". Two years later he was awarded by the President of Poland the title of extraordinary professor of technical sciences, and in 1989 – the title of full professor.

His scientific career Bogdan Ney started in 1957 at the AGH University of Science and Technology in Cracow working as an assistant at the Department of the Descriptive Geometry, which from 1960 he continued in the Department of Geodesy and Surveying Data Processing. In 1969-1974 he served as the deputy director at the Institute of Mining and Engineering Surveying of the AGH University of Science and Technology in Cracow. Bogdan Ney has completed two one month internships at the Technical University in Bratislava, Czechoslovakia in 1964, and at the Moscow Institute of Geodesy, Photogrammetry and Cartography in the USSR in 1970. His scientific interest at the beginning of his career focused on the problems of errors in surveying measurements, adaptation of some statistical techniques to the needs of surveying and development of surveying calculation methods, and methods and techniques of inventory, implementation and control measurements in engineering and engineering surveying.

In 1974 he was transferred to the Institute of Geodesy and Cartography (IGiK) in Warsaw for the position of director of the Institute which he held until 1991. In 1986, Bogdan Ney was elected a corresponding member of the Polish Academy of Sciences (PAS), and in 2002 a full member of PAS.

As the director and then the head of the System Research Laboratory of IGiK he was further involved in research providing valuable contributions in the following fields: the use of principles and techniques of aerial and satellite remote sensing in various fields of science and applications; general, organizational and economic problems of geodesy and cartography as well as related disciplines; spatial information systems; scientific and scientific-technical policy. In 1991-1997 he continued his educational activity lecturing at the Military University of Technology.

The entire scientific achievements of Bogdan Ney consist of more than 300 publications, and many presentations on national and international conferences and seminars. He was the author/co-author of 24 monographs, 6 textbooks and many other scientific reports. Over 50 publications of his were published in foreign languages. He reviewed over 100 articles for various journals, as well as research projects. He successfully supervised 10 PhD students.

Dr. Bogdan Ney had great achievements in organizational and social activities. He was active in numerous committees, councils, societies and associations. Among the most important should be mentioned: Chairman of the Earth Sciences and Mining Sciences Department of PAS (2003-2010), Chairman of the Committee on Geodesy of PAS (1991-2002), Head of the Centre of the Dissemination of Science of PAS (1993-2002), President of the Engineering Academy in Poland (2001-2008), Chairman of the IGiK Scientific Council (1996-2012), Chairman of the State Council for Spatial Management (2000-2003), Chairman of the State Geodetic and Cartographic Council (2000-2016). As the president of the National Committee for IUGG in 1984-1992 he represented Poland in IUGG Council as well as in IAG Council during IUGG General Assemblies in Vancouver and in Vienna.

In 1998 the Agriculture-Technical Academy in Olsztyn honoured Dr. Bogdan Ney awarding him an honorary doctor degree.

Dr. Bogdan Ney enjoyed widespread recognition of the scientific community due to his high culture, responsibility in carrying out numerous duties, supporting young scientists in their further career, outstanding ability to solve conflict situations and sincere kindness towards meeting people. He was not only a respected scientist and authority, but also a Wonderful Man, full of tact and warmth, admired and liked by colleagues.

Jan Krynski