



Cartography and Geographic Information

Society

PO Box 70006, Albuquerque, New Mexico, USA

Tel: +1.505.270.6429

<http://www.cartogis.org>

January 16, 2019

Professor László Zentai
Secretary-General & Treasurer, International Cartographic Association
Department of Cartography and Geoinformatics
Eötvös University
H-1117 Budapest, Pázmány Péter sétány 1/A
Hungary

Dear Secretary-General Zentai:

As the Chair of the United States National Committee (USNC) to the International Cartographic Association (ICA), on behalf of the United States of America, I am pleased to submit a nomination of Tim Trainor for the position of President of the ICA. Mr. Trainor has long served the ICA and the U.S. national and global, international cartographic communities with dedication, integrity, and thoughtfulness. A letter of nomination and biographical sketch accompany this nomination.

Respectfully,

Aileen R. Buckley, PhD
Chair, U.S. National Committee to the International Cartographic Association



Timothy Trainor

Candidate for President of the
International Cartographic Association

ICA Experience

Member, ICA Statutes and By-Laws Committee, 2015 to present

Honorary Fellow, International Cartographic Association, 2017—in recognition for outstanding contributions to the ICA and for exceptional promotion of cartography at an international level

Co-Chair, Local Organizing Committee for the 28th International Cartographic Conference held in Washington, D.C., 2013–2017

Vice-President, ICA, 2007–2015

Chair, ICA Census Cartography Working Group, 2007–2011

Chair, ICA Commission on National and Regional Atlases, 1995–2007

Member, ICA Commission on National Atlases, 1987–1995

BIOGRAPHY

Tim Trainor currently is a self-employed consultant assisting the United Nations Secretariat as an expert on geospatial initiatives related to Global Geospatial Information Management. In January 2018, Mr. Trainor retired from the U.S. Census Bureau after serving 37 years in the Geography Division. He began his career as a cartographer in the Cartographic Methods Branch. There he transitioned from leading conventional mapping methods to designing and implementing fully-automated cartographic systems to produce millions of maps supporting decennial censuses. He was a geospatial data architect for the development of the TIGER System that supported four decennial censuses. In 1995, he became Chief of the Cartographic

Products Management Branch where he was responsible for the publication of map products including outline maps, thematic maps, and boundary files. Over time, he assumed other leadership responsibilities and, in 2008, he became Chief of the Geography Division where he was responsible for directing the development and implementation of geographic and cartographic activities necessary to support the Census Bureau's data collection, tabulation, and dissemination programs for the United States.

Timothy Trainor
10382 Stansfield Road
Laurel, Maryland 20723

Home: (301) 317-9315
E-mail: timtrainor4@gmail.com

Mobile: (410) 972-9922

Consultant on Management, Operations, and Geospatial Information
January 2018 to Present

Chief, Geospatial Scientist
May 2016 to January 2018

Co-Chair, UN Committee of Experts on Global Geospatial Information Management (UN-GGIM)
August 2015 to January 2018

Chief, Geography Division – Senior Executive Service
December 8, 2008 to May 2016

Objective: To serve as a management and geospatial data expert commensurate with my abilities, experience, education, training, and background.

EDUCATION

SENIOR EXECUTIVE SERVICE CANDIDATE DEVELOPMENT PROGRAM – Certificate of Executive Qualifications, Washington, D.C., February 2007

GEORGE WASHINGTON UNIVERSITY SCHOOL OF BUSINESS AND PUBLIC MANAGEMENT, Washington, D.C. Masters Certificate in Project Management, September 2001.

GLASGOW UNIVERSITY, Glasgow, Scotland
Post-Graduate Diploma in Cartography within the Faculty of Science, June 1978.

RUTGERS UNIVERSITY, College of Arts and Sciences, Camden, N.J.
Bachelor of Arts Degree in History, June 1975. Honors: Dean's List.

ROWAN (GLASSBORO) STATE COLLEGE, Glassboro, N.J.
New Jersey State Teacher Certification. 1975

GLOUCESTER COUNTY COLLEGE, Sewell, N.J. 1972
Honors: Dean's List.

EXPERIENCE

Consultant on Management, Operations, and Geospatial Information

Tim Trainor – Consultant, LLC, 10382 Stansfield Road, Laurel, MD 20723

Geospatial Information Expert – January 2018 to present – Serving as an expert consultant on geospatial initiatives and projects for the United Nations, the World Bank, and national geospatial and statistical agencies within individual countries.

U.S. BUREAU OF THE CENSUS, Washington, D.C.

Chief Geospatial Scientist – 2016 to January 2018 – Responsible for research and developmental activities in the broad area of geospatial science that includes exploring methodological, technical and substantive issues relating to the creation, collection and integration of geospatial information. Serves as the leading geospatial expert to the Chief Statistician within the Office of Management and Budget (OMB), to ensure alignment with national geospatial initiatives under its purview, bringing to bear the research, innovation, and methods that enable these initiatives. Ensures that the Department of Commerce is integrated and in compliance with all related OMB Circulars and Directives and other initiatives dealing with geospatial issues. Represents the agency on geospatial areas of interest within the international community including the United Nation's Committee of Experts on Global Geospatial Information Management (UNGGIM). Contributes expertise in international geospatial requirements for conducting statistical activities and national mapping efforts. .Recognized nationally and internationally for contributions to the fields of geospatial science, geography and cartography and the integration of statistical and geospatial information.

Co-Chair, UN Committee of Experts on Global Geospatial Information (UN-GGIM) 2015 to January 2018– The U.S. is elected to this post by the Committee to serve one year. Leads the UN-GGIM Bureau (five regional entities, international geospatial societies, academic network, and a private sector network); establishes the agenda for goals and tasks of the Committee and its Expert Groups and Working Groups throughout the year; reviews and directs plans for international geospatial conferences; represents the UN-GGIM at other UN venues such as the UN Economic and Social Council and the UN Habitat; and regularly meets with the UN Secretariat for the UN-GGIM to address current issues and future plans.

Division Chief, Geography Division 2008- May 2016 – Responsible for directing development and implementation of geographic and cartographic activities necessary to support the Census Bureau's data collection, tabulation, and dissemination programs for the United States and its territories. Responsible for maintaining and managing road, boundary, and address data for the Nation. These activities revolve around the Census Bureau's MAF/TIGER System. Manages a complete address list of the country with their associated locations. Directs work associated with TIGER, the agency's automated geographic database that includes the boundaries of legal, statistical, and administrative geographic areas, roads, hydrography and relationships among components of the database. Manages geocoding addresses, acquires boundaries and their legal status; manages development of geographic criteria and production of reference files for geographic entities in the United States; fosters geographic partnerships between the Census Bureau and federal, state, local, and tribal governments; initiates procurements with commercial companies; directs the design and production of maps to support the Census Bureau's data collection and dissemination operations; and develops standards and manages the governmental unit data asset theme for the Nation to meet Census Bureau obligations to the Federal Geographic Data Committee (FGDC), the requirements of Executive Order 12906, and the submission to and acceptance of these standards by the American National Standards Institute (ANSI) and the International Standards Association (ISO) committees on geospatial data.

Department of Commerce Senior Agency Official for Geospatial Information 2014 – January 2018 – Representing one of seven Cabinet-level agencies with the largest investments in geospatial technologies as well as the Executive Office of the President, provides executive leadership for the coordination of federal geospatial activities for agencies by establishing policy and providing guidance and direction to the member agencies. Responsible for overseeing Office of Management and Budget (OMB) Circular A-16 related activities and the implementation of the National Spatial Data Infrastructure (NSDI). Provides advice and guidance to the FGDC Chair and the Vice Chair on major Federal geospatial priorities and initiatives. Instrumental in advancing efforts for creating the address theme within the NSDI and a National Address Database (NAD).

Vice President, International Cartographic Association (ICA) 2007-2015 - prepared and organized the General Assembly of Delegates, oversaw the planning, preparation, and program for five International Cartographic Conferences (ICCs) (Paris, Santiago, Dresden, Rio and Washington) and served in a leadership role for other meetings such as training sessions for ICA Commission Chairs. Served on the Scientific Program Committee for 11 ICCs and selected abstracts for presentation and/or publication in refereed journals. Prepared guidelines and rules for the formation and operation of ICA Commissions and Working Groups, including their functioning and reporting, and managed funds allocated for their support. Examined and edited proposed Commission Terms-of-Reference. Made proposals for changes in the organization's statutes and by-laws.

Assistant Division Chief, Geocartographic Products and Customer Service. 2004 to 2008

Chief, National Geographic Partnerships. 2003 to 2004

Chief, Cartographic Products Management Branch. 1995 to 2003

Chief, Publication Mapping Team. 1991-1995

Chief, Computer Mapping Section in the Mapping Operations Branch. 1987 to 1991

Senior cartographer. 1980 to 1987

DEFENSE MAPPING AGENCY, Washington, D.C.

Cartographer in the Digital Products Branch of the Cartographic Data Division. (GS-7) 1980

VERNON GRAPHICS, Elmsford, N.Y.

Cartographic editor of a project in orthophotomapping at large-scales for the state of Vermont. 1979

Academic

UNIVERSITY OF MARYLAND, College Park, MD.

Lecturer, Computer Cartography Course, GEOG 371;473

Geographic Information Systems GEOG 373,471 1987 to 2003

UNIVERSITY OF MARYLAND, Baltimore County Campus

Lecturer, Computer Mapping Course, GEOG 385

1988 to 2001

MONTGOMERY COLLEGE

Member, Career Curricula Advisory Committee

1998 to present

HONORS AND RECOGNITION

Lifetime Service Award – National States Geographic Information Council (NSGIC) 2018

Distinguished Career Award Recipient – Cartography and Geographic Information Society (CaGIS) 2018

Recognition for contribution to the advancement of science and profession of geography and its integration with statistics – UN-GGIM High Level Forum 2017

Honorary Fellow, International Cartographic Association – in recognition for outstanding contributions to the ICA and for exceptional promotion of cartography at an international level. 2017

Ordem do Merito Cartografico – Honor to cartographers who provided outstanding service to Brazil. 2015

NSGIC Award - Outstanding Service Award -in recognition for upholding the highest ideals of promoting good and effective government. 2013

Gold Medal, U.S. Department of Commerce – for executing a multi-year initiative to modernize, reengineer and complete the 2010 Census. 2011

Esri - Making a Difference Award – presented at the Esri Federal Users Conference - 2010

Equal Employment Opportunity Award – Workforce Recruitment Program for Students with Disabilities, May 2006

Fellow, OPM, The Federal Executive Institute - 2005 to present

Department of Commerce Senior Executive Service Candidate Development Program - 2004-2006

Senior Fellow – Council for Excellence in Government - E-Government Fellows Program – 2002 to present

National Partnership for Reinventing Government (Vice President Gore’s Hammer Award) – National Atlas of the United States Interagency Team, representing the U.S. Census Bureau and the Department of Commerce.

Fellow, ACSM - Elected as a Fellow of the American Congress on Surveying and Mapping

Rotary International Graduate Fellowship, awarded 1976 for 1977-78 academic year to Glasgow University, Scotland to study cartography.

PUBLICATIONS AND PUBLICATION EDITOR

"Identifying Geospatial Data Requirements for the Goals, Targets, and Indicators of the 2030 Agenda for Sustainable Development." World Bank Land and Poverty Conference, 2017

"A Common International Conceptual Framework for Geospatial and Statistical Data Acquisition, Data Management, and Data use: Goals and Barriers" UN Economic Commission for Europe, Conference of European Statisticians. 2016

"Technological and Societal Influences on GIScience" (Winter, Lopez, Harvey, Hennig, Jeong, Trainor, Timpf) In: Advancing Geographic Information Science: The Past and Next Twenty Years, Harlan Onsrud and Werner Kuhn eds., GSDI Association Press, 35-44, 2016

"Data Integration from Multiple Sources: Enhancing the U.S. Census Bureau’s TIGER File" Proceedings. International Cartographic Conference-Moscow, Russia, 2007

"Census Cartography 2007: Reflections, Status, and Predictions" Cartography and Geographic Information Science, Vol. 34, No. 2, pp 169-171, 2007

"The MAF/TIGER Enhancement Program: The Mechanics and Maintenance of a Large-Scale National Spatial Database" Proceedings. International Cartographic Conference-Spain 2005

"U.S. Census Bureau Geographic Support: A Response to Changing Technology and Improved Data" Cartography and Geographic Information Science, Vol. 30, No. 2, pp 213-218, 2003

"Transition of Census Cartography in Response to Change in Technology – Implications of MAF/TIGER Modernization" Proceedings: International Cartographic Conference-Durban, South Africa 2003

“Virtual and Real Maps: Are They Interchangeable?” Proceedings: International Cartographic Conference-Beijing, 2001

“Selected Issues Concerning Disclosure Avoidance in the Context of User-Defined Geography” (coauthor) *Statistical Journal of the United Nations Economic Commission for Europe*, Volume 17, No. 2, pp 133-139, 2000

“Resurgence in Cartography: Getting Back to Basics” *Proceedings: International Cartographic Conference-Ottawa*, 1999

“Data Access and Dissemination System of the Bureau of the Census-Access to a Wealth of Statistical and GeoSpatial Data”, *Proceedings from ICA Commission on National and Regional Atlases*, Reykjavik, 1999

Several brief cartographic articles within *Cartography and Geographic Information Science*, (coauthor) vol 26, no. 3, 1999

Seminar on electronic atlases II, Köbben B, Ormeling F, Trainor T (eds.), Prague, ICA Commission on National and Regional Atlases. 1996

“Automated Mapping at the United States Census Bureau: 1980-1994” *Cartography and Geographic Information Science*, (coauthor) vo. 22, no. 2, 1995

“Fully Automated Cartography: A Major Transition at the Census Bureau” *Cartography and Geographic Information Science*, vo. 17, no. 1, 1990

“Attribute coding scheme : identification of features in the U.S. Census Bureau's TIGER system” *Volume 1 Hardware, Data Capture and Management Techniques, International conference on the acquisition, management and presentation of spatial data*” Auto Carto London, 1986

SCIENTIFIC PROGRAM AND PAPER REVIEW COMMITTEES

UN-ECE Organizing Committee: International Workshop on Integrating Geospatial and Statistical Standards - reviewed abstracts, selected topics for sessions and finalized the agenda - organizer with Eurostat on "Challenges and Solutions for Creating Geospatial Statistical Outputs" Stockholm 2017

28th International Cartographic Conference – Co-Director of the biennial international conference of the International Cartographic Association, Washington D.C. 2017

EuroCarto Book – Submission review of papers on “VGI and INSPIRE: Specie Distribution in Europe” and “Interoperable Volunteered Geographic Information Empowering e-Governance Processes: Case Study for Land Use Dataset in the City of Zagreb” – 2015

Cartocon 2014 – Conference Program Committee – Olomouc, Czech Republic – 2014

KEYNOTES, PRESENTATIONS, PANELS AND INTERVIEWS

UC Berkeley School of Public Health Interview for GIS class “Applied GIS for Public Health.” February 2018

International Cartographic Conference, - organized and participated in session on "Discussion on European Space Agency/World Bank Perspectives on Earth Observation and Geospatial Analytics for Sustainable Development" Washington, D.C. July 2017

48th UN Statistical Commission Meeting – Panelist on "Geospatial and Earth Observations in Support of the Global Indicator Framework" New York March 2017

4th Plenary Meeting of the UN-GGIM Arab States – Delivered keynote address, Doha, February 2017

International LiDAR and Mapping Forum Keynote address on "Role of Technology and Geospatial Information toward Achieving the UN Sustainable Development Goals" Denver February 2017

First UN World Data Forum – Plenary presentation on "Geospatial and Statistical Data Acquisition, Data Management, and Data use: Goals and Barriers" Cape Town, South Africa, January 2017

National Surveying, Mapping, and Geospatial Conference – Annual update on Census Bureau geographic program, budget and procurement activities. Annual event

UN Statistical Commission Side Event on Geospatial Information and Earth Observations: Supporting Official Statistics in Monitoring the SDGs – Panel on National Applications with Senior Statisticians from Denmark, Brazil, South Africa, Philippines, Mexico and Australia - <http://unstats.un.org/unsd/statcom/47th-session/side-events/20160307-1M-geospatial-information-and-earth-observations/> - March, 2016

UN interview "Geography and statistics supporting global development agenda" New York <http://www.unmultimedia.org/radio/english/2015/08/geography-and-statistics-supporting-global-development-agenda/#.Vunx-DJf19Q> 2015

Geospatial World: Thought leader edition interview, GeoBuiz, <http://geobuiz.com/geobuiz-live-15-july-2015/> 2015

International Cartographic Conference – presentation Rio de Janeiro, Brazil

International Map Industry Association keynote "The Changing World of Cartographic Products and Services: Responding to New Opportunities" – Washington, D.C. 2015

Inter-American Development Bank "Using Statistical and Geospatial Administrative Records to Solve Global Challenges" Washington, D.C. 2015

Esri International User Conference "The Importance of the Global Geospatial Information Management Agenda to the United States" San Diego, 2015

Geospatial World Forum – "The UN-GGIM challenge to develop integrated core datasets: Advantages and disadvantages of grid-based, population and administrative geography approaches", Lisbon, Portugal. 2015

European Forum for Geography and Statistics keynote – "The 2020 U.S. Census: A Time for Change" - Krakow, Poland. 2014

International Conference on Census Methods – "The 2020 Census Address Canvassing: An Alternative Approach to a Full Address List Verification" – Washington, D.C. 2014

UN International Workshop on Integrating Geospatial and Statistical Information – Keynote address on "Positioning for the Future: Trends in Technology, Big Data, 2020 Round of Censuses, and the Post-2015 Development Agenda" – Beijing, China. 2014

Cartocon 2014 – Keynote address on "Cartographic Challenges for Data Dissemination: Small Areas and Statistical Grids" – Olomouc, Czech Republic - 2014

UN International Workshop on Integrating Geospatial and Statistical Information - Presentation on “A comparison of grid-based versus administrative approaches to the collection, compilation, and dissemination of statistics” - Beijing, China. 2014

IBGE presentation “Research to Support Geographic Preparations for the 2020 Census” – Rio de Janeiro 2014

AutoCarto “Research to Support a Reengineered Address Canvassing for the 2020 Census” Pittsburgh. 2014

URISA GIS-Pro “The Importance of Addresses in Preparation for the 2020 Census” Providence, R.I. 2013

Association of American Geographers “Creating a Geospatial Picture of the Nation: A Method for Identifying Places of Interest” – New York, 2012

Council of Professional Associations on Federal Statistics “The Census Bureau’s Geographic Support System Initiative – An Update”, Washington, D.C. 2012

International Census Forum – “Census Geography –MAF and TIGER.” Washington, D.C. 2010

Esri International User Conference – keynote “Geography is the Core of the Census.” San Diego. 2009

ORGANIZATIONAL MEMBERSHIPS

Member. Association of American Geographers
Member. Cartography and Geographic Information Society
Member. American Geophysical Union
Member. National States Geographic Information Council
Member. Urban Regional Information Systems Association
Member. U.S. National Section, Pan American Institute on Geography and History

INTERNATIONAL EXPERT ADVISOR

Oman – UN-GGIM Arab States Fifth Meeting - Integrations of Statistical and Geospatial Information
February 2018
Berlin – UN Conference of 15 former Soviet Union States and 14 Eastern European countries under
former Soviet control – Conducted Sessions on Geography Program and Census Mapping
China – Supported plans for a national GIS for the National Statistical Office
Egypt – CAPMAS – Conducted Census Mapping Workshop
Iraq National Census – Multi-National Force on Census Planning - Conducted Sessions on Geography
Program and Census Mapping - Jordan
Macedonia – Conducted GIS Analysis Study
Malaysia – Conducted GIS Analysis Study
Senegal - Conducted Census Mapping Workshop
Southern African Development Community - Conducted Census Mapping Workshop for 14 nations -
South Africa
South Sudan – Assisted with census planning for the move to an independent state in 2011
Yemen – Conducted Census Mapping Workshop

References sent upon request

February 11, 2019

Ms. Aileen Buckley,
Chair, US National Committee for the ICA

Dear Ms. Buckley:

In conformance with By-Law 8 of the ICA By-Laws, I formally acknowledge my willingness to serve as President of the ICA if elected by the General Assembly in July 2019. I am truly honored and humbled by the opportunity for consideration as President of the ICA.

As required by By-Law 8, I also attach a resume of my qualifications.

Please let me know if you need any further information.

Sincerely,

A handwritten signature in black ink that reads "Timothy Trainor". The signature is written in a cursive style with a prominent initial "T".

Timothy Trainor
10382 Stansfield Road
Laurel, MD 20723 USA