

Dr. Clifford R. Bragdon, ASA Fellow
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Resume

Dr. Clifford R. Bragdon, Fellow ASA

Founder and President, Global Center for Preparedness and Resilience

Professor Emeritus, Florida Institute of Technology

Albert Nelson Marquis Lifetime Achievement Award, Marquis Who's Who Publication Board

Sector Chief Director, InfraGard, Tampa Bay Members Alliance and the FBI Cyber Division

Marquis Who's Who in the World and Who's Who in America

Fellow in Environmental Noise, the Acoustical Society of America

Dr. Bragdon is a celebrated educator, researcher and consultant, specializing in urban-regional planning, sustainability, transportation, economic development, homeland security-resilience, simulation, and environmental assessment and health. At the Florida Institute of Technology (FIT), he served as a Distinguished Research Professor, Dean and Vice president for Strategic Initiatives and Executive Director of the FIT Research Park and became a Distinguished Professor Emeritus. For over 40 years Dr. Bragdon has held notable positions at national universities, serving on recognized boards, and respected professional science and engineering organizations.

He was at Georgia Institute of Technology 21 years, as a Distinguished Professor, Associate Dean, Vice President for Extended Studies, Special Assistant to President Crecine, and served on the 1996 Olympics Committee. The Federal Aviation Administration (FAA) retained him to develop the vertical flight plan for all 24 Olympic venues. While at the Georgia Institute of Technology he was President of AMCEE, Association for Media-Based Continuing Education for Engineers that included Stanford University, UC Berkeley, MIT, Georgia Tech, University of Chicago, Purdue University, Arizona State University and the University of Florida. Representative John Lewis personally requested Dr. Bragdon to prepare a memo in his office, which Congressman Lewis then utilized on the House floor, to successfully obtain congressional funding for the Atlanta Summer Olympics. At Emory University, he was a visiting Clinical Professor for 13 years, teaching graduate level courses in the Emory School of Medicine and the Rollins School of Public Health.

At Florida Atlantic University, Dr. Bragdon was a Distinguished Professor and Executive Director of the Center for Intermodal Transportation Safety and Security, representing all 16 Florida public universities. It was the first center of its type federally established in the United States, approved by Congress and President Bush, awarding their Center \$10,000,000 to address transportation related national security, and reporting to Congress. Dr. Bragdon was the Dean of the only U.S. School of

Aviation and Transportation and Vice President of the National Aviation and Transportation Center, Long Island, NY.

While at FIT, Dr. Bragdon founded the internationally focused Global Center for Preparedness and Resilience™ (GCPR) in 2005. Now president of GCPR, his initiatives include creating strategies to mitigate drone technology threatening military-civilian population and infrastructure, besides establishing resilient transportation/logistic plans for controlling COVID-19. This effort has included working with Lieutenant General Russel Honore'. Lastly, Dr. Bragdon is developing a Cybersecurity Resilient Master Plan for Tampa FL through Infragard, as Sector Chief Director, and for the FBI Office of Cybersecurity. His resiliency initiative integrates safety, security, sustainability and health, to assure the earth's global biosphere is preserved. The GCPR is addressing both natural and manmade disasters and threats and to ensure resiliency prevails and that "resilient certification" is established to protect the built environment, infrastructure, and the world's population.

Dr. Bragdon has frequently been a media consultant to CBS, ABC, NBC, CNN, PBS, Fox, The New York Times and USA Today. He has been an expert witness in environmental health, urban planning, transportation, and land use development at local, state, federal and Supreme Court levels. The Supreme Court and State Bar of Georgia appointed him to serve in conflict-resolution-arbitration initiatives nationwide. Dr. Bragdon also provided expertise as adviser and consultant for two U.S. presidents, four governors, 150 mayors, 75 Fortune 500 corporations and eight federal agencies [DOD, EPA, DOT, FAA, HUD, DOL, DOI and DOE]. His mentor, U.N. Ambassador and Atlanta Mayor Andrew Young, retained him as an environmental adviser for 13 years, remarking, "I have enjoyed my association with Cliff Bragdon, because he has not been afraid to dream about impossible things and then work to make them come true, (including Atlanta Hartsfield International Airport, MARTA and the Jimmy Carter Presidential Parkway)." Internationally, Dr. Bragdon has assisted the, NATO, United Nations, UNDP, the European Union, European Commission, the World Health Organization, Russian Academy and Chinese Academy of Sciences, Organization of Islamic Countries and Cities, and three international Olympic committees (U. S., Greece, and Korea).

He has been president of his consulting firms, MS5 Solutions and C.R. Bragdon and Associates, Executive Director of the University Consortium for Intermodal Transportation and Vice President of Specialized Training in Aeronautics and Research (STAR Worldwide). Dr. Bragdon served as a distinguished member of the Harvard University Lincoln Institute of Land Policy. While at Westminster College, he received the Harvard University Sociology Award.

A seasoned scientist, Dr. Bragdon was the principal investigator [PI] for over \$60 million of funded research. A primary area of research included pollution and ecology. His doctoral dissertation, "Noise Pollution: The Unquiet Crisis," was published as a book by the University of Pennsylvania Press. Dr. Ted Schultz, internationally acclaimed acoustician, architect, and consultant to the Sydney Opera House, remarked, "Dr. Bragdon's book is the first and most important book for city planners and

architects practicing noise abatement in the world.”

Throughout his career Dr. Bragdon has presented over 175 invited lectures worldwide, including performing the first forensic analysis of the 9/11 Twin Towers attack, which he prepared for Congress, the U. S. Department of Transportation and the New York City Office of the Mayor. Earlier, he was invited to meet Mayor Giuliani and his commissioners to present a 4-D spatial master plan for New York City, incorporating aerial, surface and subsurface attributes, as a global model. It was favorably received, however, 9/11 intervened shortly thereafter. He has given lectures in over 35 countries, many sponsored by the United Nations. Moscow Mayor Yuri Luzhkov invited Dr. Bragdon to speak on the “World Future City”, attended by 2,000 invited international guests, held in Moscow.

Dr. Bragdon invented and received a patent for his Intermodal Transportation Simulation System (ITSS). It was ranked as the ninth most important U.S. new invention for the next 100 years in a national survey. A full-scale ITSS was funded by Congress and built at the National Aviation and Transportation Center. For the first time this real-time system linked all transportation sectors together: airports, maritime, roadways and railroad-light rail and magnetic levitation, utilizing computer-based visualization, sound and aroma for planning assessment and design. Governor Bush (FL) and Governor Pataki (NY) both rode in this maglev motion-based simulator, “traveling virtually” up to 300 mph. The ITSS has been employed on multiple architectural, engineering, planning projects worldwide. His work has included LaGuardia Airport- Rail Transit Access Study, Magnetic Levitation for Federal Rail Administration, Maximizing the Impact of Infrastructure Investment, NAFTA Intermodal Transportation Institute, NASA Route Corridor Environmental Impact Analysis, Traditional Neighborhood Development, Transportation Conflict Resolution and GIS Certification, 1996 Summer Olympics and Transportation Planning for the tFAA, Solar Heating and Cooling for NSF, developing a mining plan in Canada for MagLev extraction, and preparing the Environmental Noise Report to Congress.

Widely published, Dr. Bragdon has authored 12 books or book chapters and written over 125 articles. His latest book, Transportation Security, is the primary reference on the subject and has been adopted by over 100 universities. The Department of Homeland Security (DHS) and Transportation Security Administration (TSA) uses his text for certification and training purposes. Dr. Bragdon was previously contributing editor for Sound and Vibration from 1973 to 2000 and columnist for Airport Press, primarily addressing noise impact, assessment and noise mitigation. He served as a Captain in the U. S. Army Environmental Hygiene Agency (USAEHA) in the Bio-Acoustics Division, under the Surgeon General.

Bragdon assisted Secretary of State Henry Kissinger and the Army to control noise emanating from Grafenwoehr, Germany, an Army base training site. Their German Ambassador to the U. S. registered a formal complaint mandating the need for noise abatement, which the Army successfully initiated. As an Army medical service officer, he was responsible for addressing environmental-noise

issues globally and as well as implementing the hearing conservation program for all Army military bases worldwide. He also held the position of Bio-Acoustics Division Chief in the AEHA in Edgewood, Maryland, while on active duty.

In 2015, Dr. Bragdon was appointed transportation sector chief of InfraGard, an FBI-affiliated nonprofit organization. More recently he was elected in 2020, as the Sector Chief Director for all 16 InfraGard sectors that address preservation of U. S. infrastructure. Their mission is to mitigate criminal and terrorist threats, risks and losses to protect critical infrastructure and the American people. He is a charter member of the Association of Energy Engineers, American Planning Association and American Institute of Certified Planners. He is past president of both the American Planning Association, and the American Hygiene Association, Georgia Chapters. As a community leader, Dr. Bragdon served as the president of the Henegar Center for the Performing Arts, and a Board Member of the Melbourne Chamber Music Society and the Holy Trinity Episcopal Academy. He now serves on the International Advisory Board of the Pan Pacific Finance Group, headquartered in Singapore.

Dr. Bragdon was professionally recognized by the National Academy of Science and National Academy of Engineering, becoming an Acoustical Society of America (ASA) Fellow and received FAA's Excellence in Education Award. He was recipient of the New York Engineer Achievement of the Year Award in 1998, the Georgia Governor's Distinguished Service Award in High Technology, and the Westminster College Alumni Achievement Award in 2006. A celebrated Marquis listee, Dr. Bragdon has been showcased in over 15 editions of Who's Who in America®, Who's Who in Science and Engineering®, Who's Who in the World® and Who's Who in Finance and Industry®. He recently received the Albert Nelson Marquis Lifetime Achievement Award (2019-2020), from Marquis Who's Who Publication Board and is currently listed in the newest 74th Edition of Who's Who in America as a Distinguished Listee (Highest Honor), issued June, 2022.

Dr. Bragdon has served as a legally recognized expert witness in the fields of acoustics and environmental noise, air quality, radon, environmental impact, assessment, environmental health and environmental compatibility planning. He has successfully appeared as an expert in civil, and federal courts, and his testimony has been successfully utilized in U. S. Supreme Court decisions. In addition, the Georgia State Bar and the Georgia Supreme Court has designated Dr. Bragdon to be a legal arbiter in conflict-resolution matters nationwide.

Educationally, Dr. Bragdon obtained a Bachelor of Arts Degree from Westminster College in 1962, a Master of Science Degree from Michigan State University in 1965, and a Doctor of Philosophy Degree from the University of Pennsylvania in 1970. Both of his Graduate level degrees were in city planning. Dr. Bragdon also received an honorary degree from the International Informatization Academy located in Moscow, which is a U.N. Associated Member. Academically he graduated with honors from Westminster College, Michigan State University and the University of Pennsylvania.

Dr. Bragdon has been appointed to serve on the Transportation Research Board (TRB) which is a division of the National Academy of Sciences, Engineering and Medicine, and serves as a national advisor to the President of the United States, Congress and federal agencies on scientific and technical questions of importance. Dr. Bragdon has served as a member of several TRB working group committees including High Speed Rail Technology, Intermodal Transportation, and Transportation Acoustics. He possesses an expertise in numerous transport modes and systems including railroad (maglev, commercial rail, transit and light rail, rail stations, intermodal systems), aviation systems (commercial, military, itinerant, general aviation, helicopter, tilt-wing, intermodal, airports), maritime (seaports including commercial, freight, and military), roadways (automobiles, busses, trucks, vans, SUVs, motorcycles, bikes, and intermodal). He has prepared Transportation Oriented Developments (TODs), Mixed Use Developments, Transportation and Land Use Master Plans, Zoning, Site Plans, Capital Improvement, Environmental Assessment, Environmental Impact Studies, Noise, Air Quality, Radon, etc. Clients have included private sectors, public sectors (federal, state, metropolitan, regional, municipal) and non-profits. For EPA Office of Noise Abatement and Control Bragdon has developed and maintained a repository of noise control legislation (local, state and federal) as well as conducting large scale noise studies, preparing the EPA ONAC Model Noise Ordinance, creating and conducting continuing education programs for federal agency organizations and private sector businesses nationwide.

Dr. Bragdon's distinguished family members includes his three uncles: Ernest Hemingway (great uncle), who was awarded a Nobel Prize for Literature and a Pulitzer Prize; Paul Scott Mower (great uncle), Poet Laureate who was awarded the first Pulitzer Prize for Correspondence; and W. Langdon Kihn (uncle), a Native American artist who completed 400 paintings among 35 North American tribes, traveling over 40,000 miles. The book, *Indians of the Americas* was published by the National Geographic Society, and contains 125 Native American paintings by Langdon Kihn. The National Geographic Society describes Kihn's paintings as "the most complete, authentic and dramatic picture record of the American Indian ever achieved." *New York Times*, among other media sources, including a multitude of museums and galleries, have also commended him highly. His paintings are in over 100 museums worldwide and prestigious private collections.