

Frederic M. N. Bertley Ph.D.
PROFESSIONAL HIGHLIGHTS

*****COSI rated in 2020 as the #1 Science Museum in the Nation – USA Today*****



- **Current position: President and CEO, COSI**
- Strategic Civic-minded Leader; Scientist and Innovator
- SMART 50 Awardee 2020 – Smart Business
- Bloolooop 50 Worldwide Museum Influencers 2020
- SMART 50 Awardee 2019 – Smart Business
- CEO of The Year 2018 – Columbus CEO
- Honorary Doctorate 2018 – Otterbein University
- Most Admired CEO 2018– Columbus Business First
- Harvard Medical School Dean’s Service Award
- Harvard Business School – Young American Leadership Cohort 2018
- Huntington Bank – Torch Bearer Award 2018
- Opened American Museum of Natural History (AMNH) Satellite Site – 2017
- Board of Directors – Columbus International Airport
- Inducted in the United States Library of Congress
- Dell Inspire 100 World Changers Award
- 2 X Awardee of a National Academy of Television and Science EMMY™
- Citation from Commonwealth of Pennsylvania House of Rep. for Impact on Science Education
- Awarded a Citation from the City Council of Philadelphia for Civic Leadership
- Awarded Philadelphia Business Journal Minority Business Leader of The Year
- 40 Under 40 – Philadelphia Business Journal
- Appointed Good Will Ambassador US – Senegal
- Instrumental in securing TFI’s largest donation (10M) and largest federal grant (25M USAID)
- INTEL Science and Engineering Grand Award Judge
- Appeared on local and national networks: NBC, ABC, CBS, PBS and FOX
- United Nations Featured Speaker: Topic - Science and Innovation
- Founder of The Color of Science™ Program
- Academic Task Force for the Governor of Massachusetts, Life Sciences Initiative, Boston, MA
- Executive Editor (2009-2017) - The Journal of The Franklin Institute
- Expertise in Immunopathogenesis and Vaccine Development
- 20 years directing NSF, NIH, NASA, USAID formal/informal science education initiatives
- 20 years developing STEM initiatives
- Board of Directors: AAAS (Community Engagement Cmte); The Garvey Institute; Inquiry Schools
- Speaker: Numerous conferences/events (e.g. in the U.S: DOE, NSF, NIH, USAID, DOI, e.g. globally Canada, Japan, Italy, France, Paraguay, Peru, Egypt, Senegal, Barbados)
- Multilingual: English (native speaker); French (native speaker);

EDUCATION/TRAINING

- 2000 – 2003 Research Fellowship, Harvard Medical School
- 1999 – Ph.D. McGill University (Immunology)
- 1994 – B.Sc. McGill University (Physiology and Mathematics)
- After graduating from McGill, Dr. Bertley turned his attention to the lack of primary healthcare, preventative medicine, and basic vaccines in developing nations where he managed multinational teams in Haiti, The Sudan, and the Canadian Arctic. Dr. Bertley continued this focus by joining a vaccine research group at Harvard Medical School focusing on the development of DNA vaccines for HIV/AIDS. In addition, Dr. Bertley worked for three years at the prestigious A-List law firm, WilmerHale LLP (formally Hale and Dorr) as a Technology Specialist. Working in the intellectual property division, Bertley prosecuted patents, analyzed and drafted claim construction and performed freedom-to-operate studies for multi-national corporations.

RECENT EMPLOYEMENT HISTORY

- **2016 – Current: President and CEO, Center of Science and Industry (COSI)**
- 2012 – 2016: Senior Vice President, Science and Education, The Franklin Institute
- 2008 – 2012: Vice President, Center for Innovation in Science Learning, The Franklin Institute
- 2006 – 2008: Harvard Medical School / Community College of Philadelphia – Professor, Science
- 2004 – 2006: WilmerHale LLP (Formally Hale and Dorr) – Technology Specialist
- 2003 – 2004: Millennium Pharmaceuticals - Scientist
- 2000 – 2003: Harvard Medical School - Postdoctoral Fellowship

ROLE AS PRESIDENT AND CEO – 2016 - Current

Leadership

Maintaining COSI's reputation as a highly regarded science center while re-envisioning its strategic objectives; effectively implementing organization's strategic plan and empower the organization to achieve its objectives, including being a top destination in Central Ohio. Developed and launched COSI 5.0: A Strategic Plan 2019 - 2023

Mission Advancement

Advancing the COSI mission by maintaining a visible presence in the philanthropic community. Serving as the organization's chief fundraiser, leading all local and national activities; acting as a compelling spokesperson for the organization to garner the engagement and confidence of donors, members and community leaders; and stewarding relationships in support of COSI's reimagined vision and mission.

- Grew fundraising goal and attainment each year by double digit percent over previous year: 2017 – Current.
- Raised the most funds per year in the last three years since the opening of the current building in 2000.

Fiscal Oversight

Developing and managing a sustainable operating budget with a keen focus on maximizing resources for effective operation; overseeing COSI's assets, including its human capital and facilities; continuing to build upon and diversify the funding base to support COSI's strategic plan by sustaining existing funding relationships and identifying new funding sources and resources.

- Grew attendance in each of my three years as CEO (2017 – 2019);
- Grew revenue in each of my three years as CEO (2017 – 2019);
- Grew membership levels to its highest point during all three years of my tenure.

Partnerships and Collaboration

Forging and maintaining partnerships and collaborations with organizations in the Central Ohio region to support COSI's mission; fostering a spirit of community collaboration and proactively creating opportunities for COSI to significantly impact the region; maintaining the confidence and cooperation of key stakeholders including board members, community partners and government officials.

Created a comprehensive partnership plan which precipitated in MOUs with 12 cities in Franklin County; 6 cities in contiguous counties; Battelle; CAS (Chemical Abstracts); The Ohio State University; Capital University; Denison College; Otterbein University; Columbus College of Art and Design; and Columbus State.

Culture and Team

Inspiring COSI's Team members (both employees and volunteers) to deliver on COSI's mission while being effective stewards of organizational and community resources; constantly "raising the bar" and driving the organization and its constituencies towards higher levels of achievement and measurable results. Strengthening and growing the COSI culture and Team by increasing employee and volunteer engagement;

- Created a professional development and leadership training program for Executives, Senior Directors, Directors, Managers and all new onboarding staff.
- Created a Diversity & Inclusion Program both internally and externally facing to ensure COSI is an organization serving all.

COSI BOARD CULTIVATION AND STEWARDSHIP

- Actively engaging with COSI's Board of Trustees. Steward all Board Member relationships;
- Working directly and often with board members, including the Chair of the Board, specifically on governance and strategic planning matters;
- Working directly with the Chairs of the subcommittees to ensure trustee engagement, satisfaction and contribution to vision, mission and outcomes of COSI;

OTHER BOARD MEMBER AND COMMUNITY SERVICE

Actively engaged on numerous regional, national and international non-profit boards with roles on governance, nominating, and chairmanship, including:

- National Boards: American Alliance of Museums (AAM), National Veterans Memorial and Museum Operating Corporation Board (NVMM), Association of Science and Technology Centers (ASTC), Inquiry Schools;
- Regional Boards: Columbus Regional Airport Association (CRAA), Experience Columbus, Denison Launch Lab Advisory Board, Department of Engineering External Advisory Council, OSU ; City of Columbus Commission on Black Girls; Columbus Cultural Leadership Consortium (CCLC), Experience Columbus African American Business Council, Children's Hospital of Philadelphia (IRB).

DEVELOPMENT / FUNDRAISING

- As President and CEO - Chief Fundraiser for COSI
- Instrumental in securing numerous transformational gifts to The Franklin Institute;
- Key role in cultivating, proposing, securing and stewarding the largest individual donation, a naming gift of 10M;
- Co-PI (TFI lead) on the largest federal grant (25M - USAID) in the Institute's history, for the international STEM work in Egypt;
- PI or Co-PI on multiple federally funded initiatives including projects supported by NASA, NIH, NSF, USAID, US State Department and DOE;
- Successfully pitched and institutional lead on multiple corporate capital and corporate grants including but not limited to Huntington, AEP, Nationwide, GSK, TE Connectivity, Bank of America, Exelon, Boeing, Dow, FMC and PNC.

INSTITUTIONAL AMBASSADOR

- Traveling throughout the U.S. and the world representing COSI increasing brand recognition;
- Produced EMMY™ Award winning videos showcasing the importance of science;
- Appearing on numerous regional and national broadcast media outlets including NBC, ABC, CBS, PBS, PBS Kids, FOX, Travel Channel, Discovery Channel, BET, HBCU television;
- Appearing frequently in newspaper articles and on radio programs;
- Invited speaker to numerous national and international venues.

TALKS, LECTURES, SEMINARS

The following are topics of keynotes, featured speakers, seminars, workshops delivered in the past few years at local, national and international venues including: The United Nations, The White House, The US Department of Interior, Harvard Medical School, MIT, Wharton School of Business, McGill University, Canada, Italy, France, Senegal, Egypt, Paraguay.

Sample Topics include:

- Effective Leadership
- Creating a Culture of Innovation
- Science and Innovation

- Vaccines: A 101 to 401 Primer
- Understanding Neuroscience and Effective Leadership
- Understanding Our Immune System
- The Future of Genomics and Gene Modification
- The Power of Diversity and Inclusion
- HIV/AIDS: Update on the world's worst epidemic
- The Elevator Pitch
- Project Management 101
- The Diversity of Science: A look at women scientists and scientists of color
- Presenting Science: A review of the processes of science presentations
- Careers in Science: A motivational presentation to encourage participation in science
- Benjamin Franklin

RECENT AWARDS AND HONORS

2020 – COSI Voted #1 Science Museum in the Nation (USA TODAY)*
 2020 – SMART 50 Award – Smart Business
 2020 – Bloolooop 50 Worldwide Museum Influencers 2020 List
 2019 – SMART 50 Award – Columbus Business
 2018 – Honorary Doctorate – Otterbein University
 2018 – Commencement Speaker – Otterbein University
 2018 – CEO of The Year 2018 - Columbus CEO Magazine
 2018 – Most Admired CEO 2018 – Columbus Business First
 2018 – Harvard Business School – Young American Leaders Program
 2018 – Young At Heart Leadership Award – Columbus Young Professionals
 2018 – Who's Who Black Columbus
 2017 – Hunting National Bank – Torchbearer Award
 2017 – Smart50 Award – Columbus Business First
 2017 – George Washington Carver Award, Temple University / Academy Natural Sciences
 2016 – Commonwealth of Pennsylvania House of Representatives: Impact on Science Education Award
 2016 – City Council of Philadelphia Civic Leadership Award
 2016 – Paul Robeson Award for Leadership, Paul Robeson Society, Philadelphia, PA
 2015 – Inducted in the United States Library of Congress (HistoryMakers)
 2015 – Nifty Fifty Presenter (US National Science and Engineering)
 2015 – STEMX Invited Speaker 2015 – STEMX Invited Speaker
 2014 – Minority Business Leader of The Year Award – Philadelphia Business Journal
 2014 – National Award for Education – National University of Paraguay
 2013 – EMMY™ : National Academy of Television and Science
 2012 – Dell Inspire 100 World Changers
 2011 – Good Will Ambassador US – Senegal: Science, Education and Innovation
 2010 – 40 Under 40 Philadelphia Business Journal

* Not an individual award, but attributed to the COSI as an institution.