2021 AIA Fellowship

Candidate  Bryan Langlands
Organization  NBBJ
Location  New York, New York
Chapter  AIA New York State; AIA New York Chapter

Category of Nomination
Object 2 > Practice (Technical Advancement)

Summary Statement
Bryan’s leadership in forward-focused thinking, knowledge sharing and consensus building elevates the national discourse on the architecture practice of healthcare environments by advancing the delivery of care, guiding top-tier medical institutions, and influencing regulatory change.

Education
Hunter College, City University of New York
New York, New York USA
1996 - 1999 / 3 years: Master of Fine Arts (Combined Media)

Emily Carr Institute of Art & Design
Vancouver, British Columbia Canada
1994 - 1996: Bachelor of Fine Arts (Sculpture)

Dalhousie University (formerly Technical University of Nova Scotia)
Halifax, Nova Scotia Canada
1990 - 1992 / 2 years: Master of Architecture
1988 - 1990 / 2 years: Bachelor of Environmental Design Studies

Dalhousie University
Halifax, Nova Scotia Canada
1987 - 1988 / 1 year

Mount Allison University
Sackville, New Brunswick Canada
1984 - 1986 / 2 years: Bachelor of Arts (Political Science)

Dalhousie University
Halifax, Nova Scotia Canada
1982 - 1983 / 1 year

Licensed in:
New York (License #028517)

Employment
NBBJ - New York, NY (March 2010-present / 10 years 7 months)
Donald Blair Architects / Donald Blair & Partners - New York, NY (January 1999-March 2010 / 11 years, 3 months)

Davis Brody Bond - New York, NY (May 1998-December 1998 / 8 months)

SITE Design - New York, NY (June 1997-May 1998 / 1 year)

Nick Milkovich Architects / Arthur Erickson Architectural Corporation - Vancouver, BC (July 1992-August 1993 / 1 year)

Morphosis - Santa Monica, CA (January 1991-August 1991 / 8 months)

October 5, 2020

Nancy Rogo Trainer, FAIA
Chair, 2021 Fellowship Jury
The American Institute of Architects

Dear Members of the Jury:

When the Covid-19 pandemic struck, Bryan Langlands was among the very first healthcare architects called upon to help hospitals and healthcare systems to safely ramp up capacity while at the same time he was sought out to guide and teach our profession and our clients about how they too could safely respond when the pandemic struck their communities. I was not surprised that Bryan was almost immediately involved in assisting the Greater New York Hospital Association develop policy guidance and tools while also working with individual hospital clients and taking the time to teach and advocate so that others could also provide similar assistance in their own communities. I wasn’t surprised because this is who Bryan is and this is what Bryan does.

Bryan’s clients are among the most discerning and demanding health care providers in the United States. His diverse and valuable work for them is itself alone a recognition and honor meriting your consideration of Bryan as a Fellow.

Beyond his significant design and planning work for academic medical centers, Bryan is well-known, valued, and beloved by healthcare architects around the nation and across multiple generations for his service to our profession. He teaches his peers at the master class level, mentors young professionals, and is actively involved in teaching architecture students. Bryan’s writing and advocacy have resulted in significant improvements in surgical environments and in emergency departments. His work on the FGI Guidelines has resulted in regulatory change impacting and improving these and other healthcare settings. His championship of the Beyond Fundamentals project has moved the partnership between our profession and the American Hospital Association steadily towards not just developing minimum regulatory standards but leveraging the knowledge of his network into developing guides for best practices in the design and planning of a variety of types of healthcare settings.

I have known, trusted and valued Bryan for years. He is one of my go-to sources for information, inspiration and fun. He is an admirable and affable fellow who is well deserving of elevation as a Fellow of the American Institute of Architects.

Very truly yours,

Francis Murdock Pitts FAIA FACHA OAA
Principal
Bryan's leadership in forward-focused thinking, knowledge sharing and consensus building elevates the national discourse on the architecture practice of healthcare environments by advancing the delivery of care, guiding top-tier medical institutions, and influencing regulatory change.

Bryan Langlands is passionate about rethinking healthcare, from how spaces are planned and designed, to how it is delivered. He believes both constantly evolve to meet the ever-changing needs of the industry and new technologies. Never satisfied with the status quo, he pushes other healthcare architects, leaders, and experts to look at the challenges we face from new vantage points. Within his own practice, his contributions helped NBBJ receive the honor, the #1 World’s Most Innovative Architecture Firm, for “Improving Well-being Through Spaces” by Fast Company in 2018.

Shaping the Top Academic Medical Centers
As a trusted adviser in strategy and facility planning, Bryan helps the top organizations evolve intelligently within the dynamic areas of healthcare, research and education. By developing long-standing relationships with the nation’s top ranked academic medical centers, Bryan continues to inspire each to establish, strive for and successfully achieve measurable goals. At NYU Langone, he helped the institution introduce new ways to deliver care; at Vanderbilt University Medical Center his work helped them receive top-10 grant award funding; at the University of Rochester Medical Center, he is helping the facility re-ignite a nationally recognized designation; and at Geisinger Health he is helping the organization establish a new model of care.

Influencing the Healthcare Industry
Bryan leads the charge in addressing the dilemma of overcrowding in our nation’s emergency departments by calling for the recognition of a new type of treatment space for lower-acuity patients. His push for delivering “the right care at the right time in the right place” is resulting in the first major change to emergency department allowable requirements via the Facility Guidelines Institute (FGI) regulatory guidelines, which set the minimum requirements enforced in 44 states and federal agencies.

Moving the Regulatory Baseline
Bryan’s active leadership on the FGI Guidelines has resulted in greater clarity for our industry. As a member of the Health Guidelines Review Committee for the 2018 Edition of the Guidelines, he chaired the Surgery Topic Group, which resulted in standardized and simplified requirements for procedural, surgical and interventional environments. Considered the nation’s authoritative voice on this subject, Bryan was invited by the National Institute of Health to travel to the nation’s capital, and by AIA Academy of Architecture for Health Knowledge Communities to engage with their respective members.

Recognizing his drive for re-imagining how the delivery of care can be improved through the design of environments, Bryan was appointed to the FGI Steering Committee for the 2022 Edition of the Guidelines (the Guidelines are updated every 4 years) and was asked to chair a new initiative - Beyond Fundamentals - a digital library focused on innovation and what the profession “should do” rather than what it minimally “must do.” With Bryan’s leadership, the number of materials and offerings have tripled since 2018, and for the first time in its history, regulatory compliance checklists and minimum clearance diagrams are being developed.

Sharing Knowledge
Bryan’s presence on a national level has expanded the discourse and knowledge base within the healthcare architecture practice and engineering community. He is a nationally-recognized thought leader who is equally at ease authoring subject papers, moderating panels, facilitating workshops and leading web-based seminars. His knowledge community participation includes invitations to speak at AIA chapters, and national conferences including the Healthcare Design Conference; Planning, Design and Construction Conference; and numerous local and regional engagements.

Bryan has delivered over 30 CEU learning units, and in 2018, Healthcare Design named Bryan the recipient of one of their “HCD10” awards for his collaborative work in advancing healthcare design and planning.

Most recently, during this time of crisis, Bryan’s voice is among those who are leading the way by providing assistance and advisement. In representing his firm on the Greater New York Hospital Association COVID-19 Surge Capacity Task Force, he worked with other firms, peers and the Governor’s office to increase the patient bed capacity in New York. In addition to his local and regional contributions, Bryan’s continues to be on the forefront of the discourse on COVID-19 and its impact on the business of healthcare delivery.

Shaping the Next Generation
Bryan’s influence is shaping the next generation of healthcare architects and planners. Bryan devotes time to nurturing tomorrow’s planners, architects and researchers by introducing them to the principles of medical planning and regulatory requirements. His ability to turn technical topics into material that interests and engages university students and young architects is remarkable and has resulted in repeat invitations to the top academic institutions to speak and engage with the next generation. Bryan continues to have long-standing relationships with Clemson University, Rhode Island School of Design, and in New York City, with Parsons|The New School. From 2014–2016, Bryan was chair of the AIA Academy of Architecture for Health & American College of Healthcare Architects Next Generation Scholarship, and from within his own firm is the recipient of NBBJ’s “Mentor of the Year” award.
Bryan Langlands  
AIA, FACHA, EDAC, LEED Green Associate  
Principal / Senior Medical Planner, NBBJ

EDUCATION

**Master of Fine Arts** 1999  
Hunter College, City University of NY

**Bachelor of Fine Arts** 1996  
Emily Carr Institute of Art & Design

**Master of Architecture** 1992  
Dalhousie University

**Bachelor of Environmental Design Studies** 1991  
Dalhousie University

**Bachelor of Arts** 1986  
Mount Allison University

WORK HISTORY

NBBJ  
2010-present

Donald Blair & Partners/Donald Blair Architects  
1999-2010

Davis Brody Bond  
1998-1999

SITE Design  
1997-1998

Nick Milkovich Architects/Arthur Erickson Arch Corp  
1992-1993

Morphosis  
1991

Zaha Hadid Architecture  
1989

PROFESSIONAL AFFILIATIONS AND REGISTRATIONS

**American Institute of Architects (AIA)**

American Institute of Architects Academy of Architecture for Health  
Codes & Standards Committee, Facility Guideline Institute Chair, 2019–present  
Facility Guidelines Institute, Appointed Representative, 2015–present  
Next Generation Scholarship, Chair, 2014–2016  
Codes & Standards Committee, Member, 2014 cycle  
National, Member, 2002–present

American Institute of Architects  
National Chapter, 2002–present  
New York State, 2002–present  
New York City, 2002–present

**American College of Healthcare Architects (ACHA)**

Fellow, 2019-Current  
Communications & Outreach Committee, Member, 2014-2017  
Next Generation Scholarship, Chair, 2014-2016  
Certification, 2008-present

**Facility Guidelines Institute (FGI)**

Steering Committee, 2018-present  
Beyond Fundamentals Oversight Committee, Chair 2018-present  
AIA Academy of Architecture for Health, Appointed Representative, 2015-present  
Healthcare Guidelines Review Committee, 2015-present

**Healthcare Design Magazine**  
Editorial Advisory Board, 2017-present

**RxArt Canada**  
Board, 2016–2018

**Evidence-Based Design Accreditation & Certification (EDAC)** Certified, 2015-present

**Center for Health Design**  
Member, 2015-present

**Leadership in Energy Efficiency & Design (LEED)** Green Associate, 2014-present

**Registered Architect**  
New York State, 2001–present (#028517)
With more than 20 years of healthcare experience, Bryan’s key work falls into two categories:

**Practice** - Work advancing practice of healthcare architecture  
**Project** - Work with and for healthcare clients and institutions

### Practice Work
Bryan’s impact on a national level is advancing the profession in meaningful ways. He is shaping the requirements for healthcare spaces (Facility Guidelines Institute), expanding the knowledge base on best practices (Beyond Fundamentals library), connecting and sharing his expertise with students and academic institutions, actively participating at local and national conferences, and contributing to the healthcare design knowledge community through engagement and promotion of continuing education.

### Project Work
Bryan is working with many of the top ranked academic medical centers and hospitals in the country. His project expertise includes strategy, master planning, medical planning, programming and design. Bryan has been and continues to be involved with significant projects on campuses throughout the northeastern and southern regions of the US.

#### Presentations delivered

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#### States with Planning/Construction Projects

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SECTION 2.1
Significant Work - Practice

Bryan Langlands, AIA, FACHA, EDAC, LEED Green Associate
Principal / Senior Medical Planner, NBBJ

COVID-19 Pandemic
National Expertise

From the start of the COVID-19 pandemic, Bryan has been a leader locally and nationally. Bryan represented NBBJ in the Greater New York Hospital Association Surge Capacity Task Force where non-healthcare spaces were evaluated to increase the bed capacity within New York City. Building on this, Bryan continues to be interviewed on the topic, authors articles for national magazines like Forbes, and participates in panel webinars that address the impact of COVID on the healthcare industry, including panels for the NY Building Congress and AIA | Los Angeles.

Exhibit 3.1

“Beyond Fundamentals” Library

Building on his work from the Emergency Department Low-Acuity Patient Treatment Area, Bryan was invited to Chair a new initiative by the Facility Guidelines Institute - the Beyond Fundamentals library. Under Bryan’s leadership the number of published materials have tripled over the past 3 years, and for the first time in the Guidelines history, sample minimum space diagrams have been created which will assist architects in their planning, and in discussions with the Authorities Having Jurisdiction.

Exhibit 3.2

Emergency Department
Low-Acuity Treatment

Bryan’s contribution as a researcher, author and advocate has led to the inclusion of the Emergency Department Low-Acuity Treatment Area in the draft of the Facility Guidelines Institute (FGI) 2022 Edition of the Guidelines. For the first time in healthcare design history, the low-acuity treatment area will be recognized as a legitimate type of treatment space by FGI and Authorities Having Jurisdiction throughout the country. Bryan championed this effort, which has resulted in the first major change to the emergency department requirements in over a decade.

Exhibit 3.3

Facility Guidelines Institute

Bryan’s work with the Facility Guidelines Institute began in 2011 when he volunteered to be on the AIA AAH Codes & Standards Forum. As a result of this work, he was invited to be one of two official AIA AAH representatives of the FGI 2018 Edition Health Guidelines Review Committee in 2015, and in 2018 was invited to join the FGI 2022 Edition Steering Committee. He led the Inpatient Nursing Unit and Procedures Topic Group, 2015-16 and co-led the Emergency Department Topic Group, 2019-2020.
Healthcare Design Knowledge Community

Bryan has authored and delivered over 30 CEUs of learning units to the healthcare design knowledge community. He is considered a subject matter expert and regularly attends and presents at national conferences including Healthcare Design (HCD), and Planning, Design and Construction (PDC) - the two highest attended annual conferences. Bryan’s expertise includes emergency departments, operating rooms, imaging rooms, FGI Guidelines and the impact of COVID-19 on healthcare design.

Academia & Education Next Generation

Academia and the education of the next generation of healthcare planners, architects and designers is important to Bryan. He is affiliated with several institutions in New York City including Pratt, City University of New York, and Parsons|New School, where he regularly presents and participates in classes and student reviews. Outside of New York, Bryan is actively involved with the Architecture + Health program at Clemson University, and has been involved with classes at Rhode Island School of Design in Providence, RI.
<table>
<thead>
<tr>
<th>Massachusetts General Hospital, Cambridge Project</th>
<th>Atrium Health, Carolinas Rehabilitation Hospital &amp; New Bed Tower</th>
<th>Coney Island Hospital, Critical Services Structure</th>
<th>Geisinger Health, Healthplex</th>
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<tbody>
<tr>
<td>As the 6th ranked Best Hospital by U.S. News, Massachusetts General Hospital (MGH) is one of the best hospitals and medical schools in the world. In 2019, MGH decided to expand its acute clinical care program on its main campus in Boston, MA. In addition to his regulatory and medical planning expertise, Bryan is ensuring that the project is not only compliant, but demonstrates best practices in all aspects of clinical care and operational efficiencies.</td>
<td>Atrium Health, North Carolina’s #3 hospital by U.S. News is expanding its main chassis with a new 1,000,000 SF acute care building and a new 150,000 SF home for one of the nation’s leading rehabilitation hospitals - the Carolinas Rehabilitation Hospital. Bryan is the lead medical planner and regulatory expert for both projects. This is currently the largest healthcare design and construction project in NC. Construction has started on the Carolinas Rehabilitation Hospital with expected completion in 2022. The new bed tower construction will begin in 2022 and open in 2026.</td>
<td>Since 2017, NBBJ has worked with NYC Health + Hospitals and the NYC Economic Development Corporation to expand and renovate Coney Island Hospital, which was severely damaged by Superstorm Sandy in 2012. Funded by FEMA, the project’s scope includes a new structure, renovations to existing buildings, and the development of a campus flood resiliency plan. Bryan was instrumental in developing the overall resiliency and clinical strategy for the campus, which was used to understand the scope for expansion. He is currently leading the master planning of the existing campus.</td>
<td>In 2018, Geisinger Health hired NBBJ to plan and design a new type of community hospital and ambulatory care facility in central Pennsylvania. Geisinger is a self-insured healthcare provider, and the Healthplex project is one of its first joint ventures with an outside provider. Bryan led the planning on the project and has been instrumental in advising Geisinger’s leadership in structuring the operational model for patient care. Healthplex started construction in May 2020 and is expected to open in September 2021.</td>
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<td>Lead Medical Planner/Regulatory Expert</td>
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Mount Sinai Hospitals, Hudson Yards Clinic

Mount Sinai Hudson Yards is a patient-centered membership practice that enhances convenience, increases privacy, and de-institutionalizes the look and feel of a traditional doctor’s office. Located within the largest new development in New York City, the clinic integrates technology with seamless access to the larger Mount Sinai network - which is ranked 14th Best Hospital by U.S. News. Bryan worked with Mount Sinai to envision and embrace a new approach to care delivery. Bryan led the planning of the clinic that opened in 2019.

NYU Langone Health, Helen L & Martin S Kimmel Pavilion

NYU Langone is the country’s 9th ranked Best Hospital by U.S. News. Bryan was the lead planner of the NYU Kimmel Pavilion, the most significant quaternary care inpatient tower project completed in NYC in the past 20 years. The pavilion opened in June 2018 and includes 364 patient rooms, 30 operating/intervention rooms, 39 post-surgical observation units, and the Hassenfeld Children’s Hospital. The Kimmel Pavilion incorporates numerous new operational approaches to healthcare delivery which have helped shape subsequent editions of minimum healthcare requirements.

Exhibit 3.8

NYU Langone Health, Brooklyn Hospital Masterplan

In 2015, NYU Langone Health acquired Lutheran Hospital which expanded their catchment area and provided them with their first outpost hospital in Brooklyn. Bryan led the clinical masterplan effort with Ennead Architects. Working with NYU Strategy, his team developed a masterplan to establish priorities and identify levels of investment, which was organized within an overall schedule of implementation.

Jefferson University Health System, Masterplan

Having experienced a rapid expansion through mergers and acquisitions, Jefferson Health has grown from a local institution to one that serves patients throughout Pennsylvania and New Jersey at multiple locations. Jefferson Health is currently ranked as one of the best health systems in PA and NJ. Bryan led facility master planning to provide a framework to guide short-term and long-term solutions to accommodate identified space needs, program and facility priorities, as well as phasing and implementation plans.
SECTION 2.1
Significant Work - Projects

Bryan Langlands, AIA, FACHA, EDAC, LEED Green Associate
Principal / Senior Medical Planner, NBBJ

University of Pennsylvania Health, Imaging Expansion

In 2013, Penn Medicine engaged NBBJ to plan and design its 32,000-square-foot Imaging Department expansion within the Perelman Center for Advanced Medicine (PCAM). Bryan was the lead planner for this project, which satisfies the needs of multiple departments and users who share the space. PCAM is one of the busiest outpatient facilities in Philadelphia. Penn Med Hospital is ranked as the 18th Best Hospital in the country by U.S. News.

NYU Langone Health, Radiation Oncology Department

After Super Storm Sandy destroyed NYU Langone's radiation oncology department in 2012, they engaged NBBJ to design a new home for the Perlmutter Cancer Center Radiation Oncology department. The Perlmutter Cancer Center is ranked 19th nationally by U.S. News. The 20,000 SF project includes 3 exam rooms, 1 CT scanner, 2 linear accelerators, and a high-dose rate/brachytherapy vault, located 2 floors above sea level. Bryan led the planning of this complex program and developed an efficient inpatient cancer treatment environment that is beautiful and calming.

NYU Langone Health, Ronald O. Perelman Emergency Services

Located along 1st Avenue, NYU Langone’s Ronald Emergency Services building is one of the busiest emergency departments in NYC. Ranked 9th Best Hospital in the country, the new ED was planned by Bryan and incorporates planning concepts that reduce door-to-physician time, separates adults and pediatrics, accommodates surges and maximizes resources. The project includes the renovation of the existing emergency department and a new entry pavilion. The project opened in 2014 with 29 treatment positions and has expanded since to 54 treatment positions.

Children’s Hospital of Philadelphia, Inpatient Growth Masterplan

In 2015, Bryan led the master planning effort at Children’s Hospital of Philadelphia (CHOP), where the inpatient growth was established for the next 15 years through 2027. Working with data, volumes, and strategy, Bryan and his team developed multiple scenarios concurrently, which led to CHOP’s decision to expand its bed capacity, both on and off campus. The Inpatient Growth Master Plan has been a valuable tool for CHOP and has helped shape the future of the institution. CHOP is ranked as the 2nd Best Pediatric Hospital in the country according to US News.

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SECTION 2.1
Significant Work - Projects

Bryan Langlands, AIA, FACHA, EDAC, LEED Green Associate
Principal / Senior Medical Planner, NBBJ

**Vanderbilt University Medical Center, Vanderbilt University Hospital Critical Care Tower**

In 2007, Bryan led the planning effort for a major critical care tower expansion to the Vanderbilt University Hospital (VUH). Bryan, at Donald Blair & Partners, was responsible for the programming, planning and design through design development, in association with Earl Swensson Architects. The project included expansions to the emergency department, surgery suite and 5 floors of patient rooms connecting to the existing tower nursing units. VUH is ranked 17th nationally on the U.S. News Best Hospital “Honor Roll.”

**Vanderbilt University Medical Center, Medical Research Building IV**

Bryan led the planning for MRB IV (Medical Research Building) at Vanderbilt Medical Center. MRB IV housed wet-research labs for principal investigators ranging from gastroenterology to pharmacology. In 1999, VUMC (Vanderbilt University Medical Center) was ranked 24th in the country for National Institute of Health grant awards. One of the VUMC’s goals was to be in the “top 10 by year 2010.” Following the opening of MRB IV in 2008, VUMC met its goal by ranking 10th in NIH grant awards in 2010.

**University of Rochester Medical Center, Outpatient Breast Center**

The challenge for this project was to fit a large amount of program within a small amount of space, and to make it operationally efficient and visitor/patient friendly. Bryan led the planning which in addition to four exam rooms, included one ultrasound, two mammography and one stereotactic room. The Breast Center is an independent program from the James P. Wilmot Cancer Center, but by co-locating, the two programs can provide the convenience of all cancer diagnostic and treatment in one location on the main URMC campus.

**University of Rochester Medical Center, James P. Wilmot Cancer Center**

With a commitment to have its National Cancer Institute (NCI) Comprehensive Cancer Center designation re-instated, University of Rochester Medical Center (URMC) engaged Donald Blair & Partners, where Bryan led the medical planning on the new James P. Wilmot Cancer Center. Housing education, outreach, dry and wet research, and inpatient beds under one roof, URMC is currently in the final phase of evaluation in receiving its NCI designation which is the highest mark of distinction for cancer centers in the country.
### Honors, Awards, Recognition

Bryan Langlands, AIA, FACHA, EDAC, LEED Green Associate  
Principal / Senior Medical Planner, NBBJ

<table>
<thead>
<tr>
<th><strong>Project Awards</strong></th>
<th><strong>Personal Awards</strong></th>
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<tbody>
<tr>
<td>NYU Langone Health, Helen L. and Martin S. Kimmel Pavilion</td>
<td>American College of Healthcare Architects, Fellow, 2019</td>
</tr>
<tr>
<td>Healthcare Design Showcase, Honorable Mention</td>
<td>Healthcare Design Magazine 2019 Awards “Team Most Valuable Player” Award, 2018</td>
</tr>
<tr>
<td>SE AoNY Excellence in Structural Engineering Award, Engineer’s Choice</td>
<td>National Capital Commission 1st Place, 1996</td>
</tr>
<tr>
<td>ENR New York Best Projects Award, Healthcare Winner</td>
<td>Vancouver AIDS Memorial Competition Special Mention, 1996</td>
</tr>
<tr>
<td>ENR National Best Projects Award, Best of the Best Healthcare Project</td>
<td>Vancouver Public Art Commission Competition Honorable Mention, 1994</td>
</tr>
<tr>
<td>Engineering Excellence Award (EEA), Structural Systems, ACEC New York Diamond Award</td>
<td>Vanderbilt Medical Center Appreciation Certificate, 2005</td>
</tr>
<tr>
<td>LEED Platinum</td>
<td>American Institute of Architects Henry C. Adams Medal, Graduate Thesis Award, 1992</td>
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</table>
Publications

This publication section is organized into:

1. **Presentation**: Panels, presentations, webinars & workshops
2. **Education**: Academia, teaching, lectures & juries
3. **Publication**: Articles, publications & whitepapers

**Presentation**: Panels, Presentations, Webinars & Workshops

Bryan's impact is at a national level and is advancing the profession in meaningful ways. He is shaping the requirements for healthcare spaces, expanding the knowledge base on best practices, collaborating with students and academic institutions, participating at local and national conferences, and connecting with the knowledge community while promoting continuing education.

**Education**: Academia, Teaching, Lectures & Juries

Bryan works with many of the top ranked academic medical centers and hospitals in the country. His project expertise includes strategy, master planning, medical planning, programming and design. Bryan is involved with significant projects on campuses throughout the northeastern and southern regions of the U.S.

**Publication**: Articles, Publications & Whitepapers

Bryan continues to author articles for many of the nation's professional magazines including Forbes and Modern Healthcare. He has been interviewed and quoted in publications including the New York Times, Fast Company, Bisnow, and Architecture magazine. He has published two white papers on the topic of emergency departments that have led to major revisions to the guidelines and re-set requirements for healthcare spaces.
Presentation:
Panels, Presentations, Webinars & Workshops

**AIA | LA**
Webinar Panelist (National/Los Angeles, CA), July 2020
*Designing the Future - Part III: Healthcare Facilities*

**New York Building Congress**
Webinar Panelist (New York, NY), June 2020
*A Look Back on NYC’s Response to COVID-19*

**AIA | National, Associated with AAH**
Webinar - National (Washington, DC), March 2020
*Exam, Procedure, Operating and Imaging Rooms: Planning advice based on the 2018 FGI Guidelines*

**Central New York Society of Healthcare Engineers Annual Conference**
Presenter (Valhalla, NY), October 2019
1. NYU Kimmel: Integration of Infection Prevention & Design*
2. FGI’s Beyond Fundamentals*
3. 2018 Guidelines Update*

**Mayo Clinic Transform 2019 Conference**
Workshop (Rochester, MN), September 2019
*Patient Experience: Current & Future State*

**Innovations in Surgical Environments Conference**
Panelist (Charleston, SC), September 2019
*Operating Room of the Future*

**Healthcare Design Expo & Conference ‘19, Nursing Institute of Healthcare Design**
Panelist (New Orleans, LA), November 2019
*Functional Programming Workshop*

**Nursing Institute of Healthcare Design**
Webinar (National), August 2019
*Get the Latest Insights: FGI’s Beyond Fundamentals*

* CEU Learning Unit
### Presentation:
Panels, Presentations, Webinars & Workshops

**AIA**

*Summer Leadership Summit 2019: AIA AAH & American College of Healthcare Architects*
Workshop (Chicago, IL), July 2019
Rural Hospitals

**NYU Langone Health, Continuing Education**
Presentations (New York, NY), June & July 2019
1. What’s Changed in FGI 2018*
2. Integration of Infection Prevention and Design*

**National Institute of Health**
Presentation (Bethesda, MD), May 2019
Get the Latest Insights: FGI’s Beyond Fundamentals*

**Montefiore Medical Center**
Presentations (New York, NY), March 2019
1. A New Type of ED*
2. FGI Overview of 2018 Edition*
3. Appropriate Room Use: Exam, Procedure & Operating Rooms*

**PDC Summit 2018: Planning, Design and Construction in Healthcare, American Society of Health Care Engineering**
Presentations (Phoenix, AZ), March 2019
1. FGI’s Beyond Fundamentals Moving Past the Minimum*
2. NYU Kimmel Pavilion: Infection Prevention & Design*
3. Collaborating for a New Type of ED Space*

**Healthcare Design Expo & Conference ’18**
Presentations (Phoenix, AZ), November 2018
1. Get the Latest Insights FGI’s Beyond Fundamentals*
2. Low-Acuity Treatment: Shortening ED Visits*
3. Looking into the Hybrid Operating Room of the Future*

**Central New York Society of Healthcare Engineers**
Presentations (Valhalla, NY), October 2018
1. Pod People: Low-Acuity Patient Treatment in the ED*
2. A New Class Act: Changes to FGI 2018*

**AIA | Columbus**
Presentation (Columbus, OH), June 2019
2018 FGI: Major Revisions to Imaging, Procedure, & ORs*

* CEU Learning Unit
Presentation:
Panels, Presentations, Webinars & Workshops

**BISNOW**
Moderator (New York, NY), October 2018
*Executive Perspective: Penn Medicine, Princeton, NY Presbyterian, Northwell, Gilbane*

**Facility Guidelines Institute**
Webinars (National), September & October 2018
1. *Pod People: Low-Acuity Patient Treatment in the ED*
2. *Appropriate Room Use, Part 1: Exam, Procedure & ORs*
3. *Appropriate Room Use, Part 2: Imaging Rooms*

**AIA**
**Summer Leadership Summit 2019: AIA AAH & American College of Healthcare Architects**
Presentation & Workshop (Chicago, IL), July 2018
*Examination Rooms*

**AIA**
**Middle Tennessee Academy of Architecture for Health**
Presentation (Nashville, TN), March 2018
*A New Class Act: The 2018 Guidelines and Major Revisions*

**PDC Summit 2018: Planning, Design and Construction in Healthcare, American Society of Health Care Engineering**
Presentations (Nashville, TN), March 2018
1. *FGI’s Beyond Fundamentals Moving Past the Minimum*
2. *Changes to Procedure, OR & Imaging Rooms FGI 2018*

**BISNOW**
Moderator (New York, NY), October 2018
*Executive Perspective: Penn Medicine, Princeton, Children’s National, Children’s Hospital of Philadelphia*

**AIA**
**Summer Leadership Summit 2017: AIA AAH & American College of Healthcare Architects**
Presentation & Workshop (Chicago, IL), July 2017
*Low-Acuity Patient Treatment Station*
### Presentation: Panels, Presentations, Webinars & Workshops

<table>
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<tr>
<th>Event Title</th>
<th>Location</th>
<th>Date(s)</th>
<th>Presentation Details</th>
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<tbody>
<tr>
<td>**Med</td>
<td>ED Boston Conference**</td>
<td>Boston, MA</td>
<td>April 2017</td>
</tr>
<tr>
<td><strong>Children’s Hospital of Philadelphia, Penn Medicine, Hershey Medical Center, Continuing Education</strong></td>
<td>Philadelphia &amp; Hershey, PA</td>
<td>November 2014</td>
<td>Changes to FGI 2014*</td>
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<td><strong>Children’s Hospital of the Kings’ Daughters</strong></td>
<td>Norfolk, VA</td>
<td>October 2014</td>
<td>Changes Coming with FGI 2014 Edition*</td>
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<tr>
<td><strong>Columbia Memorial Hospital</strong></td>
<td>Hudson, NY</td>
<td>July 2007</td>
<td>Changes to the New AIA 2006 Guidelines to Health Care</td>
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<tr>
<td><strong>Vanderbilt University Medical Center</strong></td>
<td>Nashville, TN</td>
<td>May 2007</td>
<td>Changes to the New AIA 2006 Guidelines to Health Care</td>
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<tr>
<td><strong>Society for Arts in Healthcare</strong></td>
<td>Nashville, TN</td>
<td>April 2007</td>
<td>Presentation (New York, NY), February 2006 Value of Art in Healthcare: Art in Public Places Importance of Art in Healthcare Settings</td>
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Education:
Academia, Teaching, Lectures, Juries

Parsons / The New School
Mid-term & Final Reviews (New York), 2017, 2018 & 2019
Re-imagining Care

New York School of Interior Design
Re-imagining Healthcare

Clemson University Architecture + Health
Presentation & Reviews (Clemson, SC), 2018 & 2019
FGI 2018 Guidelines*

Pratt Institute, School of Architecture
Invited Critic (Brooklyn, NY)
1st & 3rd Year Student Reviews

Rhode Island School of Design, Faculty of Architecture
Lecturer & Studio Advisor, (Providence, RI), 2015
Germ Studio

City University of New York, School of Architecture
Invited Critic (New York, NY) 2013, 2014

Clemson University, School of Architecture
Presentation (Clemson, SC), 2014
Changes to FGI 2014*

Columbia University Graduate School (MBA Healthcare)
Lecture (New York, NY), 2006
History of Design and Construction in Healthcare

* CEU Learning Unit
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<tr>
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<td><strong>Architecture</strong></td>
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<tr>
<td><em>Re-Evaluating Post-Covid Health Design</em></td>
<td><em>Why the Industry Was Ill-prepared for a Pandemic and What Changes Could Come</em></td>
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<td><strong>Forbes</strong></td>
<td><strong>Modern Healthcare</strong></td>
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<tr>
<td>Columnist, August 2020</td>
<td>Interviewed &amp; Quoted, April 2020</td>
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<td><em>How To Reduce Social Isolation for Healthcare Workers and Patients During the Coronavirus Pandemic</em></td>
<td><em>These Architects Are Addressing COVID-19 Health Care Infrastructure Capacity</em></td>
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<td><strong>Forbes</strong></td>
<td><strong>FST COMPANY</strong></td>
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<td>Columnist, June 2020</td>
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<td><em>The Coronavirus Has Boosted Telehealth; Here’s How Existing Spaces Can Support Virtual Visits</em></td>
<td><em>3 Things Hospitals Can Do Right Now to Prepare for COVID-19</em></td>
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<td><strong>Forbes</strong></td>
<td><strong>Dalhousie University Alumni Spotlight</strong></td>
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<tr>
<td>Columnist, April 2020</td>
<td>Subject, January 2019</td>
</tr>
<tr>
<td><em>Many Rural Hospitals Are Not Prepared for COVID-19 Surge, Here’s How They Can Be</em></td>
<td><em>A Passion for Healthcare Architecture: Bryan Langlands</em></td>
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<td><strong>Forbes</strong></td>
<td><strong>Facility Guidelines Institute Publication - Whitepaper</strong></td>
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<td>Columnist, April 2020</td>
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<td><em>We Need More ICU Beds to Fight COVID-19: Rethinking America’s Individualized Healthcare Mentality</em></td>
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## Publication:
**Articles, Publications & Whitepapers**

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<tr>
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<td><em>Medical Concierges, Telehealth, and Experience Define Healthcare Real Estate New World</em></td>
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<td><strong>Forbes, Bisnow</strong></td>
<td><em>Forbes</em></td>
<td>Subject, November 2017</td>
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<tr>
<td></td>
<td><em>Millennial Parents Are Turning Hospitals into Technological Headaches for Boomers</em></td>
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<tr>
<td><strong>Healthcare Design Magazine</strong></td>
<td><em>Healthcare Design Magazine</em></td>
<td>Subject, August &amp; September 2018</td>
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<tr>
<td></td>
<td><em>1. Healthcare Design 10: Bryan Langlands - Team MVP</em></td>
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<td><em>2. Celebrating the 2018 Healthcare Design Winners</em></td>
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<td><em>3. Healthcare Design Names the HCD 10 Winners</em></td>
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<td><em>Healthcare Design Magazine</em></td>
<td>Contributor, September 2016</td>
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<td><em>How to Weigh in on the Guidelines</em></td>
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<td><em>Guidelines for Design and Construction of Hospitals</em></td>
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<td><em>A Case for the Low-Acuity Treatment Station: Reducing Length of Stay in the Emergency Department</em></td>
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<td><em>As Office Space Shrinks, So Does Privacy for Workers</em></td>
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3.1 COVID-19 Pandemic National Expertise
National Leadership in a Time of Crisis

3.2 “Beyond Fundamentals” Library
of the Facility Guidelines Institute
Promoting Ideas and Best Practice

3.3 Emergency Department Low-Acuity
Patient Treatment Area
Transforming Healthcare Delivery

3.4 Facility Guidelines Institute
National Advocacy

3.5 Academia & Education Next Generation
Shaping the Next Generation of Architects and Planners

3.6 Healthcare Design Profession & Knowledge Community
National Leader in Knowledge Sharing

3.7 Geisinger Health System
Healthplex: Creating a New Model of Delivering Care

3.8 NYU Langone Health System
Helen L. & Martin S. Kimmel Pavilion
Setting the Precedent for Regulatory Advancement

3.9 Vanderbilt University Medical Center
Setting the Direction for Vanderbilt’s Future

3.10 University of Rochester Medical Center
James P. Wilmot Cancer Center
Laying the Foundation for National Cancer Institute Designation
“Bryan’s expertise and leadership came to bear during this extraordinary time resulting in an effective and expedited process for evaluating existing facilities for expanded bed capacity.”

Rodney Crumrine, AIA
GNYHA Surge Capacity Task Force

Overview
In February and March 2020, the number of hospitalizations and deaths increased daily in the country due to COVID-19. In New York state and city, the need for hospital beds far exceeded the available beds. Hospitals ran out of beds, particularly for the critically ill and those requiring ventilators. Hospital systems urgently looked for ways to increase their bed capacity.

The Greater New York Hospital Association established a Surge Capacity Task Force comprised of architects, engineers, construction managers, expediters, and Authorities Having Jurisdiction. NBBJ was one of the involved firms and Bryan led the effort to establish the evaluation criteria for the Task Force, which resulted in the evaluation of over 30 sites.

Outcome
New York city was able to increase its overall bed capacity, doubling its intensive care beds, and create new beds in non-traditional healthcare spaces. As COVID-19 spread to other parts of the country, Bryan’s pioneering work with the Surge Capacity Task Force in New York city also expanded further afield, encompassing interviews, published articles, and participation in webinar panels. Bryan has been a regular contributor and voice representing our design profession’s response to the pandemic. As recently as July 2020 Bryan was invited and participated on a panel sponsored by AIA|LA regarding health facilities response to COVID-19.
We Need More ICU Beds To Fight COVID-19. These Medical Architects Say That Requires Hospitals To Rethink Individualized Care

Coronavirus Frontline is a platform where we are sharing the perspective of experts at the forefront of combating the COVID-19 pandemic.

**Bryan's steady and calm leadership through the COVID-19 pandemic provided thoughtful information and guidance during a time of crisis.**

Rodney Crumrine, AIA  
GNYHA Surge Capacity Task Force

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**NY State Hospitalizations & Bed Demand**  
Diagram created to demonstrate NY state COVID-19 bed hospitalizations compared to # of available beds.

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**GNYHA**  
GNYHA Surge Capacity Taskforce objective and overview.

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**Evaluation Criteria**  
GNYHA evaluation criteria form developed by Bryan used by all teams.

---

**Site Evaluation**  
Evaluation of North Queens Surgical Center to create additional capacity during coronavirus.
SECTION 3  
Exhibit 3.2 - Practice

Bryan Langlands, AIA, FACHA, EDAC, LEED Green Associate  
Principal / Senior Medical Planner, NBBJ

“Beyond Fundamentals” 
Library of the Facility Guidelines Institute 
Promoting Ideas and Best Practice

“...As the Chair of the Beyond Fundamentals Oversight Committee, Bryan is raising the bar on what healthcare ‘should’ do in support of best practice, rather than simply what it ‘must’ do by following minimum code requirements.”

Peter L. Bardwell, FAIA, FACHA  
AIA AAH Past President, 2008

Overview
Much of healthcare planning and design is focused on minimum requirements of healthcare spaces, and what must be done to be compliant. The questioning of “what is best?” is often lost to “what is required?”

As a direct result of his active engagement as the AIA AAH representative on the FGI Health Guidelines Review Committee, and his ground-breaking work arguing for and promoting change in how care is delivered in our nation’s emergency departments, Bryan was asked to chair Beyond Fundamentals, a separate initiative established by the Facility Guidelines Institute. Since 2018, Bryan has crafted and championed a platform from which others speak authoritatively on the latest in healthcare design thinking in the form of best practices, design recommendations, evidence-based research, and new applications of technology. Beyond Fundamentals has become a valuable resource for healthcare organizations, planners, and designers.

Outcome
From 2018 to 2020 the Beyond Fundamentals library has tripled the number of materials available and has published numerous critical documents used by AIA Academy of Architecture for Health members. For the first time in FGI history, regulatory compliance checklists and minimum clearance diagrams are being developed which will clarify how the Guidelines requirements are to be correctly interpreted and applied.

Sample Space Diagram
Minimum required clearance and clear floor area diagram produced by Beyond Fundamentals.

2018 FGI Outpatient Guidelines

- Procedure Room - with anesthesiologist and 2/3 of personnel
- Clearance zone diagram (minimum)
- Anesthesia
- 3/4 of personnel
- Patient area
- 3/4 of personnel
- 3/4 of personnel

DEPARTMENT OF RESPONSIBILITY
I have personal knowledge that the nominee is the Chair of the Beyond Fundamentals Oversight Committee and that he is primarily responsible for this initiative.

David Uhaze RA  
Chairman, FGI Guidelines  
President of FGI Guidelines, the body that oversees Beyond Fundamentals, and who invited Bryan to chair Beyond Fundamentals

ROLE OF NOMINEE
Beyond Fundamentals Library
Chair, 2018-present

PUBLICATIONS
Patient Handling and Mobility Assessment, 2nd Edition, 2020
How Collective Design Triumphed Over Competition in the Fight Against Hospital Acquired Infections, 2020
Reimaging the ED: Ideas for Shaping the Emergency Department of the Future, 2019
Hybrid Operating Room Design Basics, 2019
A Case for the Low-Acuity Patient Treatment Station: Reducing the Length of Stay for Emergency Department Visits, 2018
Checklist for Designing a Geriatric Treatment Room in the Emergency Department, 2018
Responses to Questions about Applying the Guidelines, 2018
FGI Study of Clearances Needed to Provide Safe Care for Patients of Size, 2018
Design Guide for Long Term Care Homes, 2018

DECLARATION OF RESPONSIBILITY
I have personal knowledge that the nominee is the Chair of the Beyond Fundamentals Oversight Committee and that he is primarily responsible for this initiative.

David Uhaze RA  
Chairman, FGI Guidelines  
President of FGI Guidelines, the body that oversees Beyond Fundamentals, and who invited Bryan to chair Beyond Fundamentals

Peter L. Bardwell, FAIA, FACHA  
AIA AAH Past President, 2008
SECTION 3
Exhibit 3.2 - Practice

Beyond Fundamentals

Beyond Fundamentals available on Facility Guidelines Institute website.

“Through this trailblazing work [Beyond Fundamentals], he [Bryan] has set the pathway for much needed change within healthcare design as the healthcare industry continues to transform.”

Joan Saba, FAIA, FACHA
AIA AAH Past President, 2002

Sample Checklist

Checklist for FGI 2018 Edition medical/surgical patient care unit currently in development as part of the Beyond Fundamentals

PHAMA


Re-imagining the ED

Whitepaper with Bryan as lead author available on Beyond Fundamentals library.

Design Guide

Design Guide for Long Term Care Homes published available as part of Beyond Fundamentals library.
SECTION 3
Exhibit 3.3 - Practice

Bryan Langlands, AIA, FACHA, EDAC, LEED Green Associate
Principal / Senior Medical Planner, NBBJ

Whitepaper
Whitepaper authored by Bryan Langlands laying the foundation for the adoption by Facility Guidelines Institute for the low-acuity patient treatment station.

Emergency Department Low-Acuity Patient Treatment Area
Transforming Healthcare Delivery in the Emergency Department

"Bryan’s push for delivering the ‘right care at the right time in the right place’ is resulting in the first major change within the emergency department of the FGI Guidelines in over a decade.”

Douglas Erickson, FASHE, CHFM, HFDP, CHC
Chief Executive Office, Facility Guidelines Institute

Overview
Emergency Departments across the country are facing significant space constraints, especially in urban settings. One strategy that could help health care organizations reduce costs and alleviate overcrowding is providing treatment spaces that could be used exclusively for “vertical” or chair/recliner-centric patients, however the current edition of the Facility Guidelines Institute Guidelines which has been adopted by 44 states and federal agencies does not include minimum requirements or guidance for such spaces.

Working with the American College of Emergency Physicians (ACEP), Bryan conducted research, authored a whitepaper, gathered input through presenting a case at national conferences, educated and lobbied Facility Guidelines Institute voting members, and submitted the proposal for the low-acuity treatment area for the next edition to be published and adopted.

Outcome
The Emergency Room Low-Acuity Treatment Area has been included in the draft of the 2022 Guidelines Edition which is currently open for public review and will be included in the final published document scheduled for release in December 2021. For the first time in healthcare design, the low-acuity treatment area will be recognized as a legitimate type of treatment space by Authorities Having Jurisdiction across the country.
“Without Bryan’s dedication and passion, the geography of the ED setting would remain stagnant as it has for the past two decades... [Bryan] recognized that the status quo is not good enough, and had the fortitude to work to make change.”

Christine M. Carr, MD, CPE, FACEP
Prof, Depts Emer Med and Public Health,
Medical University of South Carolina
DECLARATION OF RESPONSIBILITY

I have personal knowledge that the nominee is a member of the FGI 2022 Edition, Steering Committee and Health Guidelines Review Committee.

Douglas S. Erickson
Founding Member and Chief Executive Officer, Facility Guidelines Institute
Representing interest of the FGI Guidelines.

Facility Guidelines Institute
National Advocacy

LOCATION
National

ROLE OF NOMINEE
Steering Committee Member, 2018-present
Health Guideline Review Committee Member 2015-present

PUBLICATIONS
Facility Guidelines Institute, Paper “Re-imagining the Emergency Department” Jan 2019

“Our Nation’s healthcare facilities are being transformed because of Bryan’s visionary concepts and his work on the Fundamental... aspects of the Guidelines.”

Douglas Erickson, FASHE, CHFM, HFDP, CHC
Chief Executive Officer, Facility Guidelines Institute

Overview
Facility Guidelines Institute (FGI) is the organization responsible for establishing and promoting consensus-based guidelines to advance quality healthcare and set the minimum requirements for healthcare spaces which have been adopted and are enforced in 44 states and federal agencies.

Outcome
Bryan’s work has significantly improved the quality of the healthcare environment. As appointed representative of AIA AAH Bryan has successfully advocated on the Academy’s behalf and proposed changes which have advanced the healthcare design profession.

Bryan’s efforts have resulted in a Guidelines for Design and Construction of Hospitals and Outpatient Facilities document that provides greater clarity of clearance requirements for exam, procedure and operating rooms; revised definition of invasive procedures; classification of imaging modalities; and the inclusion of a new type of emergency department treatment space.

Bryan spearheaded the effort to align the FGI’s Guidelines document and the America Society for Heating, Refrigerating, and Air-conditioning Engineers (ASHRAE) standards leading to two addenda to the mechanical standards that are used in the design of healthcare spaces. The adopted revisions have eliminated conflicting requirements between the two documents and have led to the clarification on the minimum requirements for spaces using inhalation gases, and spaces where invasive procedures can take place.

“Our Nation’s healthcare facilities are being transformed because of Bryan’s visionary concepts and his work on the Fundamental... aspects of the Guidelines.”

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Our Nation’s healthcare facilities are being transformed because of Bryan’s visionary concepts and his work on the Fundamental... aspects of the Guidelines.”
“Bryan is one of the strongest voices and authors of approaches who are laying the foundation for future codes and standards in healthcare design.”

Joan Saba, FAIA, FACHA
AIA AAH Past President, 2002
Academia & Education
Next Generation
Shaping the Next Generation of Architects and Planners

“I have witnessed firsthand the impact [Bryan] has had on our students in the Graduate Program in Architecture + Health at Clemson and I find him an invaluable resource for our program.”

David Allison, FAIA, FACHA
CHD Change Maker Award Recipient, 2019

Overview
Bryan recognizes that the best architects of tomorrow are the students of today; and how they are introduced to healthcare planning early in their education can influence the remainder of their career. Many architects have steered away from healthcare design because of the perceived limitations of rigid requirements. Bryan has a unique talent of turning technical topics into material that both fascinate and engage students and junior architects.

Bryan is regularly invited by institutions of learning to be an educator, visiting expert and critic. He is involved with course offerings focused on healthcare and design, and often introduces students to the requirements and regulations established for healthcare planning and design.

Outcome
Bryan’s influence and dedication to education and knowledge sharing is having an impact on the next generation of healthcare architects and planners. As an expert in healthcare planning, design, and regulations Bryan has been involved in the education of hundreds of students from Rhode Island School of Design to Clemson University, and has encouraged students to see opportunities in how healthcare is delivered. In 2013, he was recognized within his firm, NBBJ, with a “Mentor of the Year” award, and from 2014-16 Bryan chaired the AIA Academy of Architecture for Health and American College of Healthcare Architects “Next Generation” scholarship program.

GERM Studio
Rhode Island School of Design GERM Studio students in personal protective equipment while visiting NYU Langone Health operating rooms.

LOCATION
City University of New York, NY NY
Clemson University Architecture + Health, Clemson SC
Columbia Univ, NY NY
Emily Carr Institute of Art & Design, Vancouver BC
Parsons | The New School, NY NY
Pratt University, Brooklyn NY
Rhode Island School of Design, Providence RI
Univ of British Columbia, Vancouver BC

ROLE OF NOMINEE
Mentor, lecturer, invited critic
Rhode Island School of Design “GERM Studio” Studio Course, 2017

AWARDS RECEIVED
Chair, AIA Architecture for Health & American College of Healthcare Architects, “Next Generation: Emerging Professionals” Scholarship 2016-2018
"Mentor of the Year” Award Recipient, NBBJ NY Studio 2013

DECLARATION OF RESPONSIBILITY
I have personal knowledge that the nominee has primary responsibility for this initiative.

Peter Yeadon
Professor, Department of Industrial Design, Rhode Island School of Design
Professor who invited Bryan to develop GERM Studio course at RISD.

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SECTION 3
Exhibit 3.5 - Practice

Bryan Langlands, AIA, FACHA, EDAC, LEED Green Associate
Principal / Senior Medical Planner, NBBJ

Clemson University | Architecture + Health
Students at Clemson during a presentation.

Clemson University | Architecture + Health
Presentation given to Clemson University | Architecture + Health students regarding changes to the FGI Guidelines requirements.

Major Changes to the 2018 FGI Guidelines

NBBJ – Bryan Langlands AIA, FACHA, EDAC, LEED Green Associate
October 4, 2018

Parsons | The New School
Presentation to students in the “Re-imagining Healthcare” course at Parsons | The New School, NY.

NBBJ Internal Project Charrette
NBBJ internal multi-studio charrette led by Bryan.

“We collaborated on a graduate level course exploring the impact of design on healthcare infections; Bryan’s encouragement and guidance for these students was inspiring.”
Michael Phillips, MD
Chief Hosp Epidemiologist, NYU Langone
AIA Knowledge Community

Overview

Bryan participates on a national level as a subject matter expert by sharing ideas and imparting knowledge with other professionals and institutions throughout the country. He is a member of the Healthcare Design Magazine Editorial Advisory Board, and he frequently presents at conferences and to healthcare organizations. Additionally, he shares knowledge through the online platform with webinars and panels including AIA National and local chapters.

Outcome

Since 2010, Bryan's knowledge sharing has included 28 presentations, 10 interviews, 6 webinars, 5 workshops, 5 panels, 6 articles and 2 white papers. He has presented at 13 national conferences, and his presentations and webinars have been awarded over 30 Continuing Education Learning Unit credits.

In July 2020, Bryan participated on a panel sponsored by AIA Los Angeles regarding the impact of COVID-19 on health facilities. In March 2020, the AIA Academy of Architecture for Health invited Bryan to lead a webinar on “Exam, Procedure, Operating and Imaging Rooms: Planning Advice Based on the FGI Guidelines” which had one of the largest recorded attendances with over 650 participants. In 2019 Bryan was invited by, and presented to, the National Institute of Health at its campus in Bethesda, MD.

“Bryan has continuously lived the principle that knowledge shared is knowledge magnified.”

Jennifer Aliber, FAIA, FACHA
Principal, Shepley Bulfinch

DEPARTMENT OF NOMINEE

Subject matter expert

AWARDS RECEIVED

Healthcare Design Magazine “Team Most Valuable Player” Award, 2018

PUBLICATIONS

AIA | Los Angeles, Webinar Panel “Designing the Future- Part II: Healthcare Facilities” Jul 2020
AIA | National with Academy of Health for Architecture, Webinar “Exam, Procedure, Operating and Imaging Rooms: Planning Advice” Mar 2020
AIA AAH & American College of Healthcare Architects Summer Leadership Summit, Workshops “Exam Rooms” Jul 2018
“AIA | Columbus Presentation “Low-Acuity Treatment Stations” Jul 2017

DECLARATION OF RESPONSIBILITY

I have personal knowledge that the nominee has primary responsibility for this initiative.

Jennifer Kovacs Silvis
Editor-in-Chief
Healthcare Design Environments for Aging
Representing interest of the Healthcare Design Publication & HCD Conference
Exhibit 3.6 - Practice

**Health Facilities Magazine**
Article by Bryan regarding planning guidance for exam, procedure and operating rooms.

**Design distinctions for exam, procedure and operating rooms**
Planning advice based on the FGI Guidelines' requirements helps to ensure optimally designed spaces.

October 8, 2019 | Bryan Langlands, AIA, ACHA, EDAC

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**2019 Healthcare Design**
Panel discussion on “Functional Programming” at 2019 Healthcare Design Conference organized by Nursing Institute for Healthcare Design.

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**2018 Bisnow**
Panel discussion with healthcare organizations c-suite executives moderated by Bryan.

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**2019 Innovations in Surgical Environments**
Panel discussion on “Future of the Operating Room” at Clemson University’s Innovations in Surgical Environment Conference.

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“What distinguishes Bryan from other talented researchers and educators is his transparent, generous and collaborative attitude of sharing knowledge through engagement...of clients, team members, professional colleagues and regulatory officials.”

Joan Saba, FAIA, FACHA
AIA AAH Past President, 2002
Bryan Langlands, AIA, FACHA, EDAC, LEED Green Associate
Principal / Senior Medical Planner, NBBJ

Geisinger Health System

Healthplex: Creating a New Model of Delivering Care

“Bryan is an individual who uses his talent in the field of architecture, planning and design to better healthcare, and health outcomes for all.”

Christine M. Carr, MD, CPE, FACEP
Prof, Depts Emer Med and Public Health, Medical University of South Carolina

Overview

The goal for Geisinger is to provide a new model of quality care at low cost that provides patient-centric care and is convenient to where that care is needed. Geisinger desired to bring both hospital and ambulatory care services to an area currently underserved. This new model of care is enhanced by a joint venture with Highmark Health to provide care at a lower cost.

Bryan led the planning which required a flexible operational plan that would be efficiently run with limited number of staff, especially during evening hours. By locating the emergency department and inpatient beds on the same floor, each becomes more efficient and can flex into one another as needed.

Outcome

Bryan’s work on the Geisinger Healthplex project has enabled a new model of care that unites both hospital and clinic as one.

Construction has begun on the 121,000 SF building that includes a mix of inpatient and outpatient rooms, a hospital, and a clinic. The entry floor has 10 emergency department (ED) positions which flex with 10 clinical decision unit (CDU) positions and 10 inpatient beds. On any given day, the line between ED, CDU and inpatient beds can change. Set to open fall of 2021, this will be the first new hospital building that Geisinger has built ground up since its founding in 1915.
Bryan Langlands, AIA, FACHA, EDAC, LEED Green Associate  
Principal / Senior Medical Planner, NBBJ

SECTION 3  
Exhibit 3.7 - Project

Concept and Departmental Floor Plans  
Diagrammatic concept floor plan and departmental floor plan with emergency department and inpatient unit with ability to flex into clinical decision unit.

Modern Healthcare  
Announcing joint venture between Geisinger Health and Highmark.

North Central PA  
Announcement on start of construction.

“Bryan is an individual who uses his talents in the field of architecture, planning and design to better healthcare, and health outcomes for all.”

Christine M. Carr, MD, CPE, FACEP  
Prof, Depts Emer Med and Public Health, Medical University of South Carolina
NYU Langone Health System

Post-Surgical Observation & Hybrid Operating Rooms: Setting the Precedent for Regulatory Advancement

Overview

Regulatory bodies are typically not on the forefront of leading change, instead they are reactionary, changing only when pushed by pioneering advancements in care delivery from within the healthcare industry. When the NYU Helen L. and Martin S. Kimmel Pavilion project was in the planning and design phases (2010-2012), the guidelines responsible for setting requirements for healthcare spaces did not include or provide guidance on a number of spaces which the clinicians under Bryan’s planning lead identified as being needed to support their care delivery model.

NBBJ was responsible for all clinical spaces within the 830,000SF hospital. Bryan led the medical planning team and worked with the clinicians and users and facilitated the dialogue between the hospital and the state authorities.

Outcome

Bryan’s forward-thinking planning influenced subsequent changes to national guidelines in healthcare and created precedents for other healthcare architects and projects.

Several planning advancements, including post-surgical observation unit and hybrid operating rooms, resulted in changes to the subsequent 2014 Edition of the Guidelines for Construction of Hospitals which has been adopted in 40 states. The 2014 Guidelines included a definition of requirements for hybrid operating rooms and allowed observations units to be independent units unaffiliated with emergency departments, for the first time.

“Bryan is a transformational leader in creating healthcare systems which interrupt the transmission of pathogens and prevent healthcare associated infections.”

Michael Phillips, MD
Hybrid Operating Rooms
Hybrid operating room location in NYU Langone Kimmel Pavilion located “behind the red line” with open case operating rooms.

“Bryan’s innovative and collaborative approach to healthcare design has incorporated input from experts in infectious disease, engineering, human behavior and hospital operations, with tangible improvements in patient safety.”

Michael Phillips, MD
Chief Hosp Epidemiologist, NYU Langone
“During this [Bryan’s] time, Vanderbilt’s total research funding went from less than $150,000,000 to almost $400,000,000 and our ranking in receipt of NIH awards rose from 24th to 12th.”

Cyril Stewart, AIA  
Middle-Tennessee Chapter AIA, Past President, 2004

**Overview**

Vanderbilt Medical Center (VUMC) is a top tier academic medical center. From 1998 to 2010, Bryan with Donald Blair & Partners helped to establish a vision for the campus and was involved with many significant projects.

Bryan was the lead planner for the Medical Center Research Master Plan which provided the medical center with a plan for the future through 2020. One of the major objectives for VUMC was to reach the “top 10 by 2010” in National Institute of Health (NIH) grant awards. Top 10 NIH ranking is generally considered one of the highest marks of academic research quality.

**Outcome**

Bryan led the planning and master planning efforts, and was also responsible for the planning and programming for some of Vanderbilt’s major projects of the early 2000’s including the Emergency Department and Critical Care Tower Expansion of Vanderbilt University Hospital, and Medical Research Building IV Phase I and II.

The master planning and construction of major projects enabled VUMC to expand its research component and led to an increase in recruitment, which correlated to an increase in NIH grant funding. In 1998 VUMC ranked 24th in NIH grant awards, 12th in 2006, and by 2010 it had reached its goal 10th in the nation in research grant award funding by NIH.
“He [Bryan] has designed a number of nationally recognized research buildings which integrate the evolving nature of medical research programs.”

John Manning, PhD, MBA
COO/Chief of Staff, Vanderbilt Medical Center
Overview

In 1974 the James P. Wilmot Cancer Center (JPWCC) was established, and today it is one of the primary cancer treatment facilities treating patients in 17 region and 60 counties across portions of New York and Pennsylvania. In 2002, a strategic planning priority of the University of Rochester Medical Center (URMC) was for JPWCC to receive the Comprehensive Cancer Center (CCC) designation from the National Cancer Institute (NCI). Receiving the NCI-designation will place JPWCC among the top 4% of approximately 1500 cancer centers in the country. In 2019 there were 51 NCI-designated CCC’s in the US.

To receive the CCC distinction, NCI evaluates each center based on strict criteria, including the facilities within which cancer education, treatment and research takes place, which led to the decision by URMC to build a new home for the JPWCC in order to move the cancer center it out of its aged facilities.

Bryan led the medical planning, and was the senior project architect for the new cancer center building which opened in 2009.

Outcome

With the completion of the new state of the art facility, URMC/JPWCC has been able to direct its focus on the other criteria required for its NCI application. URMC’s application is currently in progress with the expectation that it will successfully achieve its goal of becoming a Comprehensive Cancer Center by 2022.

University of Rochester Medical Center

James P. Wilmot Cancer Center: Regaining National Cancer Institute’s Comprehensive Cancer Center Designation
“Designed to ensure comfort and privacy for the patient, the new Wilmot Cancer Center facility is a giant step forward in the healthcare architecture of cancer centers.”