# Byron M. Edwards, III, AIA,

## ACHA, LEED AP, EDAC

P.O. Box 333 220 North Broad Street Pendleton, SC 29670 Cell: (843) 709-7029 byrone@clemson.edu

OBJECTIVES:

To find a synergetic collaborative home for my dual passions of healthcare programming, planning and design along with teaching programming, planning and design with a research-informed focus in order to help enhance that Institution's overall academic, research and community outreach capabilities in the process.

**EDUCATION:** 

Master of Architecture - Clemson University - 1978-1980\*

Concentration in Health Care Facilities Planning and Design within the Healthcare

Facilities Design Graduate Studio

Bachelor of Science – Pre-Architecture – Clemson University - 1974-1978

\* Includes a semester's study at the Center of Building Research and Urban Studies in

Genoa, Italy, January-May 1979

WINNER: AIA National School Award for Design & Academic Excellence

THESIS (Terminal Project)

"BIRTHING PLACE - AN ENVIRONMENT CONDUCIVE TO FAMILY-ORIENTED

PERINATAL CARE". Clemson University, December 1980.

#### TEACHING EXPERIENCE

Professor of Practice – fall 2015 ARCH 3510 Third Year Urban Architecture Studio, ARCH 8860 Health Facilities Planning and Design, spring 2016, ARCH 8960 "Tectonic Projects" – First Year Graduate Studio, spring 2016, ARCH 6880 - Programming, spring 2016, ARCH 8950 – Small Projects, – First Year Graduate Studio, fall, 2016, ARCH 8900 – Surgery Planning Seminar, fall 2016, ARCH 8960 "Tectonic Projects" - First Year Graduate Studio, spring 2017, ARCH 6880 - Programming, spring 2017, ARCH 8970, Vertical Studio with D. Allison – Urban/Hospital, fall, 2017, ARCH 8860 – Health Facilities Planning and Design, fall 2017

Visiting Lecturer – spring 2014 ARCH 8960 "Tectonic Projects" – First Year Graduate Studio, fall 2014 ARCH 8950 - "Selected Projects" – Healthy Community Planning - Vertical Studio with D. Allison \*Teaching spring 2015 ARCH 8960 "Tectonic Projects" and ARCH 6880 – "Architectural Programming and Pre-design" CLEMSON UNIVERSITY - Clemson, SC – Architecture + Health Graduate Studio

Visiting Critic - spring 1990, 1992, 1994, 1998, 2003, 2005, 2007, 2009, 2010, 2011, and 2012 Graduate Thesis and Final Project reviews
CLEMSON UNIVERSITY - Clemson, SC — Architecture + Health Graduate Studio

**Lecture and Critic** - fall 1992, spring 1994, fall 1997, spring 2000, fall 2003, fall 2004, fall 2007, spring 2008 spring 2009, spring 2010, fall 2011 and spring 2012

CLEMSON UNIVERSITY - Clemson, SC - Architecture + Health Graduate Studio

Lecture and/or Critic - fall 2003, spring 2005, fall 2007, spring 2009, spring 2011, fall 2014 CLEMSON UNIVERSITY - Charleston Undergraduate Architectural Studio, Charleston, SC

Lecture and Critic - Student Hospital Design Review at LS3P Office - Charleston, SC, fall 2002 SAVANNAH COLLEGE OF ART AND DESIGN - Undergraduate Architectural 5th year Studio

**Lecture and Critic** - December, 1985 to June 1986 - 3<sup>rd</sup> & 4<sup>th</sup> year Design Studiots (See 1986 A.S.A. conference Lecture below)
"Intergenerational Housing - Designing for Choice in the Built Environment."
CALIFORNIA COLLEGE OF ARTS AND CRAFTS - Architectural Studies San Francisco, California

Critic - 2nd Year Design Studio - August 1983 to December 1983 UNIVERSITY OF CALIFORNIA – BERKELEY - Berkeley, California

**Graduate Teaching Assistantship: First Year Design Studio** - August 1979 to May 1980 COLLEGE OF ARCHITECTURE, CLEMSON UNIVERSITY Clemson, South Carolina

GRANTS

**2014 NCARB Grant Award** – "Defining Best Practices in Ambulatory Care Design for the Medically Underserved Populations: an Integrated and Collaborative Knowledge Research Informed Learning-Practice Model" – proposed as co-investigator with principal investigator, David Allison

**2014** A+CA GOALI Pre-Proposal NSF Grant Award – "Conference on Architecture and Construction Research Initiatives for 2020 – An Engagement of Academia, Industry, and Organizations "– proposed with coinvestigators, David Allison, James Packer Smith and Shima Clarke (co-lead investigator) with Clemson

1

University and Pardis Pishda-Bozorgi, John Riker Haymaker, and Javier Irrizary (co-lead investigator) with Georgia Tech University.

**2015 Pennell Grant Award – Richard H. Pennell Center, Research Program** - the purpose of this research project is to document current best practices amongst ACCE accredited universities for teaching and facilitating interdisciplinary courses focused on the built environment. This knowledge will act as a foundational benchmark for relevant CAAH departments, and for others interested in teaching and developing Inter-disciplinary courses – proposed as co-investigator with principal investigator, James Packer Smith, Ph.D.

#### **LECTURES**

2017 Healthcare Design Symposium in Orlando, Florida – **"EBD in Action: Moving from Research to Design Innovation"** - A Presentation on the tools and processes generated in collaboration between Architecture +Health PhD doctoral program and Architecture + Health Master of Architecture Design Studio – Presented with Anjali Joseph, PhD and David Allison, FAIA, FACHA

2017 Healthcare Design Symposium in Orlando, Florida - AIA/AAH Research Forum Presentation "Bridging the Gap between RESEARCH and PRACTICE' - Roundtable Discussion on Knowledge Repository and Case Study Library efforts to date and finding more "bridges" - presented and moderated with Ellen Taylor, PhD and Lindsey Stang, AIA

2017 AIA/AAH South Atlantic Region Architecture for Health Chautauqua in Atlanta, Georgia – Moderator for Panel Discussion entitled "Panel Discussion: Collaborative Delivery Process –turning Barriers into Opportunities"

2017 AIA/AAH South Atlantic Region Architecture for Health Chautauqua in Atlanta, Georgia – Facilitator for Architecture + Construction Alliance Second Day Workshop entitled "Trust-Building"

2016 Healthcare Design Symposium in Houston, Texas – AIA/AAH Research Forum Presentation "Making the Case for Case Studies - a new dynamic database reference for practitioners and researchers" - A Presentation and Discussion with Deborah Franqui, AIA. NACARB, PhD.

2016 Healthcare Design Symposium in Houston, Texas – "Ambulatory Care Facility Design for Underserved Populations: Results of an NCARB – Sponsored Evidence-Based Learning Initiative" - A Presentation and Discussion with David Allison, FAIA, FACHA and Deborah Franqui, AIA. NACARB, PhD.

2015 Healthcare Leadership Conference In Charleston, SC - sponsored by MUSC's College of Health Professionals and Carolina Society for Healthcare Strategy & Market Development.

"Aligning Evidence-Based Design and Evidence-Based Medicine to Design a More Efficient and Higher Quality Patient-Centered Healthcare Delivery Model" - A Presentation and Panel Discussion

2011 SC Lowcountry Green Building Council Meeting – Presentation of Clemson University's Belle Baruch Institute Center for Coastal Ecology and Forestry – a Gold LEED certified building.

2011 Clemson University Architecture + Health Graduate Studio - OR Planning & Design Lecture and Tour of MUSC ART and Surgical Pavilion

2010 AIA/AAH South Atlantic Chautauqua - Moderator for Panel Discussion on the future of Rural Community Hospitals

2010 Clemson University A+H Graduate Studio – Hospital programming and planning and MUSC ART and HRMC presentations

2010 SC American Planning Association Annual Conference - Sustainability Conference - Moderator and Presenter – "Planning for Building Sustainable Facilities in a remote Rural Setting"

2007 Labs 21 Symposium Panel Discussion Moderator and MUSC Lab Tours Leader/Organizer

2003 A Symposium & Workshop Dedicated to the Conscious Creation of Health Environments. Presenter for MUSC Ashley River Tower Case Study Panel Discussion

1992, 1994, 1997 Clemson University Architecture + Health Graduate – Acute Care Hospital Planning & Design and Spartanburg Regional Medical Center Projects

"PARTNERSHIPS IN HOUSING: CAN THE FOR-PROFIT AND NOT-FOR-PROFIT SECTORS WORK TOGETHER TO FILL THE CONTINUUM GAP?" - March, 1987. Full day Intensive @ Amer. Society on Aging's National Convention in Salt Lake City Served as Chairperson/Moderator/Organizer for Panel Discussion and Site Tours.

"HOUSING THE MISSED MARKET - THE TEAM APPROACH" - March, 1986 Full day intensive @ American Society on Aging's National Convention in San Francisco Served as Chairperson/Moderator for Panel Discussions as well as the Organizer of the day's events that included Site Tours of exemplary projects followed by a reception featuring Intergenerational Housing Projects-in-Work mentioned under TEACHING EXPERIENCE.\*

"THE PERFECT DICHOTOMY: MONUMENTAL IMAGERY WITH A HUMAN SCALE" An analysis of selected works by Alvar Aalto. Lecture to First Year Studio - spring 1980.

Subsequent lectures @ Medical Planning Associates, Kaplan/McLaughlin/Diaz, and the Ratcliff Architects and PFVS in Atlanta in 1999

#### "SKETCHBOOKS - TOOLS FOR DESIGN"

A demonstration of sketchbook documentation of design thoughts and processes through the sketchbooks of Alvar Aalto, Le Corbusier, and my own personal journals. Lecture to First Year Studio - Clemson University, Fall, 1979

#### **PUBLICATIONS**

## "BODY OF EVIDENCE IN RESEARCH-BASED SOLUTIONS"

Healthcare Design Magazine - October 2017

Co-authored with Tom Clark, FAIA and Lindsey Stang, AIA

http://www.healthcaredesignmagazine.com/trends/perspectives/body-evidence-research-based-solutions/

#### AMBULATORY CARE FOR THE MEDICALLY UNDERSERVED - 2015 NCARB Grant Publication

Editorial Advisor and Professor - Graduate Studies Architecture + Health, Clemson University

School of Architecture - spring 2016

#### "DESIGNING THE RURAL HOSPITAL OF THE FUTURE"

Healthcare Design Magazine - August 2010

Co-authored with Dave Hamill, CEO for Hampton Regional Medical Center http://www.healthcaredesignmagazine.com/article/building-rural-hospital-future

#### "AN INTERACTIVE MODEL FOR MASTER SITE PLANNING"

Hospital Topics Magazine - November/December, 1987

Co-authored with/Clifton Louie, Vice President at Children's Hospital Oakland

#### **PROFESSIONAL MEMBERSHIP** & SFRVICE

AIA - American Institute of Architects & Academy of Architecture for Health - since 1984 to current

ACHA - American College of Healthcare Architects - Exam Committee Member 2007 - 2012

AIA/AHA - Academy of Architecture for Health - Chair & Founding Member - Research Initiatives Committee 2009 to current

AIA/AHA South Atlantic Region Healthcare Chautauqua - Founding Committee Member 2009 and subsequent Speaker and Topics Chairman, 2010, 2011, 2012, 2013, 2014, 2, 2016, 2017 and planning for 2018

Labs 21 Symposium - SC Conference Committee member and presenter - 2007

LEED AP - LEED Accredited Professional since 2008

EDAC - Evidence-Based Design Accredited since 2010

Center for Health Design - Affiliate Member and Knowledge Repository Sub-Committee (w/AIA/AAH RIC) since 2000 Appointed to Research Coalition - November 2016

American Society on Aging - National Co-chair of Housing Committee - 1986 and 1987

#### AWARDS

SCAIA MERIT AWARD - 2012 - Clemson University Belle W. Baruch Institute of Coastal Ecology & Forest Research SCAIA Charleston Chapter Honor Award - 2010 - MUSC Ashley River Tower (in association with NBBJ)

SCAIA HONOR AWARD - 2008 - MUSC Ashley River Tower (in association with NBBJ)

SCAIA HONOR AWARD - 2005 - Westvaco Technical Center

SCAIA MERIT AWARD - 1998 - Roper Chapel Project

MODERN HEALTHCARE Magazine Honor Award - 1998 - Roper Bratney Atrium Cancer Center

## TOYOTA TECHNICAL CENTER - Ann Arbor, Michigan

- AIA Award of Citation -1992 AIA San Fernando Valley Chapter
- AIA Award of Citation -1991 AIA Ann Arbor Chapter

## CHILDREN'S HOSPITAL OAKLAND - Children's Outpatient Clinic - Oakland, California

- AIA Award of Merit 1992 AIA San Francisco, Chapter
- Gold Nugget Merit Award 1992 Pacific Coast Builders Conference
- Grand Award 1991 Builder's Magazine
- BIG "I" Award 1990 Interiors Magazine

# HONORABLE MENTION - \$1000 Prize

UNIVERSITY OF MIAMI'S CAMPUS MASTER PLAN COMPETITION

Coral Gables, Florida - March, 1986

# FIRST PRIZE - "HANDS ON STEEL" DESIGN COMPETITION, spring 1977

(Sponsored by American Institute of Steel Construction, Inc.)

Acted as team leader of 4-man student team in the design, development, procurement of material, and actual construction of winning design - a tensile structure with attachable sun screen.

Miscellaneous additional ASID and IIDA Interiors Awards for Storm Eye, Roper Bratney Atrium, MUSC Heart & Vascular, Children's Research Center, College of Dental Medicine, Cannon Street MOB, Westvaco Technical Center, Westvaco Forestry Research Laboratory Complex and Transgenic Labs, Clemson Baruch, Central Carolina Technical College's Allied Health Building, etc.

# **PROFESSIONAL**

EXPERIENCE:

#### **CLEMSON UNIVERSITY - Architecture + Health Graduate Studies**

School of Architecture Clemson, South Carolina

DUTIES: Professor of Practice – August 1, 2015 to current Visiting Lecturer - January 15, 2014 to May 15, 2015

Faculty Scholar of Clemson University School of Health Research (CUSHR) - March 2017

## **BE THREE Architecture**

Charleston, South Carolina DUTIES: Owner/Principal August, 2012 to current

#### LS3P ASSOCIATES, LTD.

Charleston, South Carolina

DUTIES: Vice President/ Principal - Director of the Healthcare & Technology Group

November, 1993 to July, 2012 (see attached Projects List)

#### **LOCKWOOD GREENE**

Spartanburg, South Carolina DUTIES: Director of Design

June, 1989 to August, 1993 (see attached Projects List)

#### THE RATCLIFF ARCHITECTS

Emeryville, California

DUTIÉS: Project Architect/Project Designer July, 1985 to June 1989 (see attached Projects List)

#### KAPLAN/McLAUGHLIN/DIAZ

San Francisco, California

DUTIES: Project Architect, Planner/Designer, & Job Captain February, 1982 to July, 1985 (see attached Projects List)

#### **MEDICAL PLANNING ASSCOIATES**

Malibu, California

DUTIES: Programmer/Planner/Designer

November, 1980 to February, 1982 (see attached Projects List)

# COLLEGE OF ARCHITECTURE, CLEMSON UNIVERSITY (George Means Jr, FAIA)

Clemson, South Carolina

DUTIES: Graduate Assistantship - including Studio Graduate Assistant teaching Undergraduate Design Studios as well as Apprentice Programmer/Planner/Designer under contractual agreement between South Carolina Mental Health Association and the Clemson Architectural Foundation August, 1978 to May, 1979 plus August 1979 to December, 1979

# JAMES HOWARD FOX, ARCHITECT

Highlands, North Carolina DUTIES: Apprentice Designation

DUTIES: Apprentice Designer/Draftsman May-August 1978 and May to August, 1977

# LS3P ASSOCIATES, LTD. Selected Projects Experience













 Medical University of South Carolina - Ashley River Tower Masterplanning, for 5 phases of replacement Hospital and subsequent programming, planning, and design of 655,000 sf Phase 1 Replacement Hospital (in association with NBBJ)

Charleston, SC

Role: Principal-in-Charge - Lead Planner/Designer and Marketer

Medical University of South Carolina - Central Energy Plant
 Masterplanning, for 5 phases of replacement Hospital including Central
 Energy Plant Feasibility Studies and subsequent programming, planning and
 design for 70,000 sf Central Energy Plant sized for all 5 phases of development
 Charleston, SC

Role: Principal-in-Charge – Lead Planner/Designer and Marketer

 Medical University of South Carolina – Bee St. Parking Structure Programming, Planning, and Design for 1500 car garage as entry portal or gateway into MUSC Campus. Mixed Use tenant up-fits included 8000 sf Cardio Rehabilitation Center on the second and third floors of the garage and two retail tenant up fit spaces on the ground floor. Charleston, SC

Role: Principal-in-Charge – Lead Planner/Designer and Marketer

 Medical University of South Carolina - Storm Eye Institute Addition Programming, Planning and Design of 43,500 sf, 4-story, vertical research lab addition to existing 5 story building

Role: Lead Designer/Principal-in-Charge

 Medical University of South Carolina - Children's Research Institute Programming, Planning and Design of 122,500 sf research lab building addition to Basic Science Building including vivarium floor. Charleston, SC

Role: Principal-in-Charge – Lead Planner/Designer and Marketer

 Medical University of South Carolina - College of Dental Medicine Programming, Planning and Design of 121,000 sf College of Dental Medicine Charleston, SC

Role: Principal-in-Charge - Lead Marketer

7. Westvaco Charleston Technical Center

Programming, Planning and Design of 85,000 sf Research Lab building North Charleston, SC

Role: Lead Planner/Designer/Principal-in-Charge - Lead Marketer

8. Hampton Regional Medical Center

Masterplanning, Programming, Planning and Design of 82,000 sf, 32 bed Replacement Hospital.

Varnville, SC

Role: Lead Planner and Designer/Principal-in-Charge – Lead Marketer

9. Roper Hospital Chapel

Programming, Planning and Design of 350 sf Non-denominational Chapel Charleston. SC

Role: Lead Designer/Principal-in-Charge – Lead Marketer

10. Roper Hospital - Bratney Atrium

Programming, Planning and Design of 8500 sf vertical addition for Oncology Patient/Family Respite Area

Role: Lead Planner and Designer/Principal-in-Charge – Lead Marketer

11. Charleston Cancer Center

Programming, Planning and Design of 24,500 sf new Cancer Center N. Charleston, SC

Role: Principal-in-Charge – Lead Marketer and front-end programming, planning and design consulting

 New Hanover Medical Center - Women & Children's Pavilion Planning and Exterior Design of 120,000 sf Addition (in Association with HDR)

Wilmington, NC

Role: Consulting Principal – helped market and drafted front-end contacts as well as front-end planning and design

#### **LOCKWOOD GREENE** Selected Projects Experience













#### Toyota Technical Center

Design of 120,000 sf Automotive Evaluation Laboratory and adjacent 80,000 sf Office Building with an atrium courtyard.

Ann Arbor, Michigan Role: Lead Designer

# FMC - Research & Development Center

Programming, planning and design for a new 24,000 sf Chemical Research Laboratory building with administrative support

Bessemer City, North Carolina

Role: Project Manager & Lead Programmer/Planner/Designer

## U.S. MEMORIES, Inc.

Conceptual design for High Tech Microelectronics campus with over 1,000,000 sf Microchip Production Facilities, including administrative support New York, New York

Role: Lead Programmer/Planner/Designer

#### Carson Products. Inc.

Masterplanning, programming, planning, and design to renovate and improve functional efficiencies of over 250,000 sf of existing Cosmetics Production & Warehouse facilities, including programming, planning, and design of a new "freestanding" 15,000 sf Office Building for relocated offices. Savannah, Georgia

Role: Lead Programmer/Planner/Designer

#### Barnwell County Hospital

Masterplanning, programming, and planning of over 30,000 sf of remodeling for existing Diagnostic and Treatment Services, as well as a new 10,000 sf Perinatal Services addition.

Barnwell, South Carolina

Role: Project Manager & Lead Programmer/Planner/Designer & Marketer

## B.J. Workman Memorial Hospital

Programming, planning, and design of a 22,000 sf new addition that included a new Emergency department along with a new 20 bed nursing unit with all private beds. There was also 6500 sf of associated Surgery Suite renovations.

Woodruff, South Carolina

Role: Project Manager & Lead Programmer/Planner/Designer & Marketer

#### Pinewood Resources Center

Programming, planning, and design of 69,000 sf of renovation to convert a former Building Supply warehouse into 22,000 sf of Child Development Center Space and associated playgrounds as well as "satellite" Administrative functions, such as Business Office and Accounting, from main SRMC campus.

Spartanburg, South Carolina

Role: Project Manager & Lead Programmer/Planner/Designer & Marketer

Spartanburg Regional Medical Center – Montgomery Nursing Tower Masterplanning, which led to subsequent programming, planning, and design of new 168-bed, 8 story, 220,000 sf nursing tower and 48,000 sf of renovation

Spartanburg, South Carolina

Role: Project Manager & Lead Programmer/Planner/Designer & Marketer

# 10. Meadows Memorial Hospital

Masterplanning, programming, and conceptual planning for 45,000 sf new addition along with 30,000 sf renovation

Vidalia, Georgia

Role: Project Manager & Lead Programmer/Planner/Designer & Marketer

#### THE RATCLIFF ARCHITECTS

Selected Projects Experience







## KAPLAN/MCLAUGHLIN/DIAZ Selected Projects Experience







**MEDICAL PLANNING** 

#### Alameda County Mental Health Facilities

120,000 sf Acute Psychiatric Inpatient/Outpatient facility - 80,000 sf of new construction and 40,000 sf remodel.

San Leandro, California

Role: Project Manager & Lead Programmer/Planner/Designer

## Children's Hospital - Oakland

12,000 sf new Cafeteria addition, 30,000 sf of Outpatient Clinics, plus 20-25,000 sf of various remodel projects ranging from a 6,000 sf Level III Intensive Care Nursery to a 300 sf Playroom

Oakland, California

Role: Project Manager & Lead Programmer/Planner/Designer & Marketer

#### Children's Hospital - Oakland

Master Site Plan with potential Road Closure and diversion, various MOB and new Nursing Tower feasibility studies as well as free-standing research lab. Oakland, California

Role: Project Manager and Lead Master Planner

#### Kaiser Permanente Hospital System

Master Site Plan and Conceptual Plans for a new 200 bed Hospital Campus

Fresno, California.

Role: Project Manager and Lead Master Planner

# Kaiser Permanente Hospital System

Master site Plan and Preliminary studies for 200 bed replacement Hospital using phased demolition and construction in

Martinez, California.

Role: Project Manager and Lead Master Planner

# NorthBay Hospital System

Master Site Plan Master Site Plan and Conceptual Plans for a new 200 bed Hospital Campus

Vacaville, CA

Role: Project Manager and Lead Master Planner

#### California Hospital Medical Center

200.000 sf of new construction - won several design awards

Los Angeles, California.

Role: Programmer/Planner/Designer

## St. Luke's Hospital

60,000 sf of new construction for an Ambulatory Services Building

won local AIA and ASID/IIDA design awards

Kansas City, Missouri

Role: Programmer/Planner/Designer

#### San Jose Health Center

30-35,000 sf of new/remodel projects ranging from 6,000 sf Adolescent Care

Unit to a 9,000 sf Oncology/Hospice Unit

San Jose, California

Role: Project Architect & Programmer/Planner/Designer

## San Pedro Pennisula Hospital

Facilities and Site Master Plan for a 250 bed Hospital Campus

San Pedro, California

Role: Lead Master Planner

## St. Francis Hospital

8.000 sf of remodel for an impatient Psychiatric unit,

San Francisco, California

Role: Programmer/Planner/Designer

# Providence Hospital

42,000 sf of Schematic planning studies for Medical/Surgical additions

Everett, Washington Role: Programmer/Planner

#### **ASSOCIATES**

Selected Projects Experience



Veterans Administration Medical Centers

Functional programming/planning and master site planning for 120,000 sf of Skilled Nursing Facilities, Psychiatric and Chemical Dependency Units and assorted Acute Care bed additions

V.A. Medical Centers, Sheridan, Wyoming and Grand Junction, Colorado Role: Programmer/Planner/Designer and Lead Master Planne Industry Family Health Center

180,000 SF of new construction for a 150 bed Hospital and 70,000 sf of new Clinics Building

City of Industry, California. Role: Medical Planner

East Oakland Family Health Center

A Master Site Plan and functional program for 60,000 sf of new construction for a replacement Health Center

Oakland, California
Role: Programmer/Planner/Designer and Lead Master Planner

**REFERENCES** Provided upon request.