

# MCWHORTER SCHOOL OF BUILDING SCIENCE

**MCWHORTER SCHOOL OF BUILDING SCIENCE** REPRESENTS A PREMIER INSTITUTION DEDICATED TO ADVANCING EDUCATION AND RESEARCH IN THE FIELD OF CONSTRUCTION MANAGEMENT AND BUILDING SCIENCE. KNOWN FOR ITS COMPREHENSIVE CURRICULUM, INNOVATIVE TEACHING METHODOLOGIES, AND STRONG INDUSTRY CONNECTIONS, THE McWHORTER SCHOOL OF BUILDING SCIENCE EQUIPS STUDENTS WITH THE SKILLS NECESSARY TO EXCEL IN VARIOUS CONSTRUCTION AND PROJECT MANAGEMENT CAREERS. THIS ARTICLE EXPLORES THE SCHOOL'S HISTORY, ACADEMIC PROGRAMS, FACULTY EXPERTISE, RESEARCH INITIATIVES, AND CAREER OPPORTUNITIES AVAILABLE TO GRADUATES. ADDITIONALLY, THE ROLE OF THE McWHORTER SCHOOL IN SHAPING THE FUTURE OF THE CONSTRUCTION INDUSTRY THROUGH CUTTING-EDGE TECHNOLOGY INTEGRATION AND SUSTAINABLE BUILDING PRACTICES IS DISCUSSED. READERS WILL GAIN INSIGHT INTO WHY THIS SCHOOL IS A LEADING CHOICE FOR ASPIRING CONSTRUCTION PROFESSIONALS AND HOW IT CONTRIBUTES TO THE BROADER FIELD OF BUILDING SCIENCE.

- OVERVIEW OF McWHORTER SCHOOL OF BUILDING SCIENCE
- ACADEMIC PROGRAMS AND CURRICULUM
- FACULTY AND INDUSTRY CONNECTIONS
- RESEARCH AND INNOVATION
- CAREER OPPORTUNITIES AND ALUMNI SUCCESS
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## OVERVIEW OF McWHORTER SCHOOL OF BUILDING SCIENCE

THE McWHORTER SCHOOL OF BUILDING SCIENCE IS A DISTINGUISHED ACADEMIC DIVISION WITHIN AUBURN UNIVERSITY, FOCUSED ON THE STUDY AND ADVANCEMENT OF CONSTRUCTION MANAGEMENT AND BUILDING SCIENCE DISCIPLINES. ESTABLISHED TO MEET THE GROWING DEMAND FOR SKILLED PROFESSIONALS IN THE CONSTRUCTION SECTOR, THE SCHOOL EMPHASIZES A BALANCE OF THEORETICAL KNOWLEDGE AND PRACTICAL APPLICATION. IT OFFERS STUDENTS A ROBUST FOUNDATION IN CONSTRUCTION PRINCIPLES, PROJECT MANAGEMENT, AND SUSTAINABLE PRACTICES, PREPARING THEM FOR LEADERSHIP ROLES IN THE INDUSTRY. THE SCHOOL'S COMMITMENT TO EXCELLENCE IS REFLECTED IN ITS ACCREDITATION, CURRICULUM RIGOR, AND ITS REPUTATION AMONG EMPLOYERS NATIONWIDE.

## ACADEMIC PROGRAMS AND CURRICULUM

THE ACADEMIC OFFERINGS AT THE McWHORTER SCHOOL OF BUILDING SCIENCE ENCOMPASS UNDERGRADUATE AND GRADUATE DEGREES DESIGNED TO DEVELOP COMPREHENSIVE EXPERTISE IN BUILDING SCIENCE AND CONSTRUCTION MANAGEMENT. THE CURRICULUM INTEGRATES CORE CONSTRUCTION TOPICS WITH EMERGING TRENDS SUCH AS GREEN BUILDING, CONSTRUCTION TECHNOLOGY, AND SAFETY MANAGEMENT.

## BACHELOR OF SCIENCE IN BUILDING SCIENCE

THIS UNDERGRADUATE PROGRAM PROVIDES STUDENTS WITH ESSENTIAL KNOWLEDGE IN CONSTRUCTION MATERIALS, METHODS, ESTIMATING, SCHEDULING, AND PROJECT MANAGEMENT. EMPHASIS IS PLACED ON HANDS-ON LEARNING THROUGH LABS, INTERNSHIPS, AND REAL-WORLD PROJECTS, ENSURING GRADUATES ARE WORKFORCE-READY.

## GRADUATE PROGRAMS

GRADUATE STUDENTS CAN PURSUE MASTER'S AND DOCTORAL DEGREES FOCUSING ON ADVANCED RESEARCH, LEADERSHIP, AND INNOVATION IN CONSTRUCTION MANAGEMENT. THESE PROGRAMS OFTEN INVOLVE INTERDISCIPLINARY STUDIES, PREPARING STUDENTS FOR ACADEMIC, RESEARCH, OR EXECUTIVE ROLES.

## SPECIALIZED COURSEWORK

STUDENTS HAVE OPPORTUNITIES TO ENGAGE IN SPECIALIZED COURSES SUCH AS:

- SUSTAINABLE CONSTRUCTION AND GREEN BUILDING PRACTICES
- BUILDING INFORMATION MODELING (BIM) AND CONSTRUCTION TECHNOLOGY
- CONSTRUCTION SAFETY AND RISK MANAGEMENT
- LEGAL AND CONTRACTUAL ASPECTS OF CONSTRUCTION
- COST ESTIMATING AND FINANCIAL MANAGEMENT IN CONSTRUCTION

## FACULTY AND INDUSTRY CONNECTIONS

THE McWHORTER SCHOOL OF BUILDING SCIENCE BOASTS A FACULTY TEAM COMPRISED OF EXPERIENCED EDUCATORS, RESEARCHERS, AND INDUSTRY PROFESSIONALS. THEIR EXPERTISE SPANS VARIOUS ASPECTS OF CONSTRUCTION SCIENCE, PROJECT MANAGEMENT, AND ENGINEERING. FACULTY MEMBERS ARE ACTIVELY ENGAGED IN RESEARCH, CONSULTING, AND INDUSTRY COLLABORATIONS, ENSURING THAT ACADEMIC CONTENT STAYS CURRENT AND RELEVANT.

## INDUSTRY PARTNERSHIPS

STRONG PARTNERSHIPS WITH CONSTRUCTION FIRMS, ENGINEERING COMPANIES, AND PROFESSIONAL ORGANIZATIONS ENABLE THE SCHOOL TO PROVIDE STUDENTS WITH INTERNSHIP PLACEMENTS, JOB OPPORTUNITIES, AND EXPOSURE TO REAL-WORLD CHALLENGES. THESE CONNECTIONS FOSTER A DYNAMIC LEARNING ENVIRONMENT AND HELP ALIGN THE CURRICULUM WITH INDUSTRY NEEDS.

## ADVISORY BOARDS AND PROFESSIONAL ENGAGEMENT

THE SCHOOL BENEFITS FROM ADVISORY BOARDS COMPOSED OF INDUSTRY LEADERS WHO GUIDE PROGRAM DEVELOPMENT AND STRATEGIC INITIATIVES. FACULTY MEMBERS ALSO PARTICIPATE IN CONFERENCES, PUBLISH RESEARCH, AND SERVE ON PROFESSIONAL COMMITTEES, CONTRIBUTING TO THE FIELD'S ADVANCEMENT.

## RESEARCH AND INNOVATION

RESEARCH AT THE McWHORTER SCHOOL OF BUILDING SCIENCE FOCUSES ON ADDRESSING CRITICAL ISSUES IN CONSTRUCTION SUCH AS SUSTAINABILITY, PRODUCTIVITY, SAFETY, AND TECHNOLOGY INTEGRATION. THE SCHOOL PROMOTES INNOVATION THROUGH VARIOUS RESEARCH CENTERS AND INITIATIVES.

## SUSTAINABLE BUILDING RESEARCH

PROJECTS IN SUSTAINABLE CONSTRUCTION AIM TO REDUCE ENVIRONMENTAL IMPACT BY DEVELOPING ENERGY-EFFICIENT BUILDING TECHNIQUES AND MATERIALS. THIS RESEARCH SUPPORTS THE INDUSTRY'S MOVE TOWARD GREENER CONSTRUCTION PRACTICES.

## CONSTRUCTION TECHNOLOGY AND BIM

THE INTEGRATION OF BUILDING INFORMATION MODELING (BIM), DRONES, AND OTHER DIGITAL TOOLS IS A MAJOR RESEARCH THEME. THESE TECHNOLOGIES ENHANCE PROJECT VISUALIZATION, COORDINATION, AND MANAGEMENT, REDUCING ERRORS AND COSTS.

## SAFETY AND RISK MANAGEMENT STUDIES

RESEARCH IN CONSTRUCTION SAFETY FOCUSES ON MINIMIZING ACCIDENTS AND IMPROVING WORKPLACE CONDITIONS. THIS INCLUDES STUDYING HUMAN FACTORS, SAFETY PROTOCOLS, AND REGULATORY COMPLIANCE.

## CAREER OPPORTUNITIES AND ALUMNI SUCCESS

GRADUATES FROM THE McWHORTER SCHOOL OF BUILDING SCIENCE ENJOY DIVERSE CAREER PATHS IN CONSTRUCTION MANAGEMENT, CONSULTING, PROJECT PLANNING, AND RELATED FIELDS. THE SCHOOL'S STRONG REPUTATION AND INDUSTRY TIES FACILITATE JOB PLACEMENT IN TOP CONSTRUCTION FIRMS, GOVERNMENT AGENCIES, AND PRIVATE ENTERPRISES.

## CAREER SERVICES AND JOB PLACEMENT

THE SCHOOL OFFERS DEDICATED CAREER SERVICES, INCLUDING RESUME WORKSHOPS, INTERVIEW PREPARATION, AND NETWORKING EVENTS. THESE RESOURCES HELP STUDENTS TRANSITION SMOOTHLY FROM ACADEMIA TO THE PROFESSIONAL WORLD.

## NOTABLE ALUMNI ACHIEVEMENTS

ALUMNI OF THE McWHORTER SCHOOL HAVE ATTAINED LEADERSHIP POSITIONS ACROSS THE CONSTRUCTION INDUSTRY, CONTRIBUTING TO MAJOR INFRASTRUCTURE PROJECTS, INNOVATIVE BUILDING DESIGNS, AND MANAGEMENT EXCELLENCE. THEIR SUCCESSES UNDERSCORE THE SCHOOL'S IMPACT IN CULTIVATING INDUSTRY-READY PROFESSIONALS.

## CAMPUS FACILITIES AND RESOURCES

THE McWHORTER SCHOOL OF BUILDING SCIENCE PROVIDES STATE-OF-THE-ART FACILITIES DESIGNED TO SUPPORT HANDS-ON LEARNING AND RESEARCH. THESE INCLUDE SPECIALIZED LABORATORIES, COMPUTER CENTERS EQUIPPED WITH THE LATEST CONSTRUCTION SOFTWARE, AND COLLABORATIVE WORKSPACES.

## LABORATORIES AND EQUIPMENT

STUDENTS HAVE ACCESS TO MATERIALS TESTING LABS, CONSTRUCTION SIMULATION ENVIRONMENTS, AND BIM LABS THAT FACILITATE PRACTICAL SKILL DEVELOPMENT. ADVANCED EQUIPMENT ALLOWS FOR EXPERIMENTATION WITH NEW BUILDING MATERIALS AND CONSTRUCTION TECHNIQUES.

## **LIBRARY AND LEARNING RESOURCES**

THE SCHOOL'S EXTENSIVE LIBRARY HOLDINGS INCLUDE CONSTRUCTION MANAGEMENT LITERATURE, TECHNICAL STANDARDS, AND DIGITAL RESOURCES. SUPPORT SERVICES SUCH AS TUTORING AND ACADEMIC ADVISING ENHANCE THE EDUCATIONAL EXPERIENCE.

## **FREQUENTLY ASKED QUESTIONS**

### **WHAT IS THE McWHORTER SCHOOL OF BUILDING SCIENCE?**

THE McWHORTER SCHOOL OF BUILDING SCIENCE IS AN ACADEMIC UNIT WITHIN AUBURN UNIVERSITY THAT FOCUSES ON EDUCATION AND RESEARCH IN CONSTRUCTION MANAGEMENT, BUILDING TECHNOLOGY, AND RELATED FIELDS.

### **WHERE IS THE McWHORTER SCHOOL OF BUILDING SCIENCE LOCATED?**

THE McWHORTER SCHOOL OF BUILDING SCIENCE IS LOCATED ON THE CAMPUS OF AUBURN UNIVERSITY IN AUBURN, ALABAMA.

### **WHAT DEGREES DOES THE McWHORTER SCHOOL OF BUILDING SCIENCE OFFER?**

THE SCHOOL OFFERS UNDERGRADUATE AND GRADUATE DEGREES INCLUDING BACHELOR OF SCIENCE IN BUILDING SCIENCE, MASTER OF SCIENCE, AND PH.D. PROGRAMS IN BUILDING SCIENCE AND CONSTRUCTION MANAGEMENT.

### **IS THE McWHORTER SCHOOL OF BUILDING SCIENCE ACCREDITED?**

YES, THE McWHORTER SCHOOL OF BUILDING SCIENCE IS ACCREDITED BY THE AMERICAN COUNCIL FOR CONSTRUCTION EDUCATION (ACCE).

### **WHAT CAREER OPPORTUNITIES ARE AVAILABLE FOR GRADUATES OF THE McWHORTER SCHOOL OF BUILDING SCIENCE?**

GRADUATES CAN PURSUE CAREERS IN CONSTRUCTION MANAGEMENT, PROJECT MANAGEMENT, COST ESTIMATING, BUILDING INSPECTION, REAL ESTATE DEVELOPMENT, AND OTHER CONSTRUCTION-RELATED FIELDS.

### **DOES THE McWHORTER SCHOOL OF BUILDING SCIENCE OFFER ONLINE COURSES?**

YES, THE McWHORTER SCHOOL OF BUILDING SCIENCE OFFERS SOME ONLINE AND HYBRID COURSES TO ACCOMMODATE WORKING PROFESSIONALS AND DISTANCE LEARNERS.

### **ARE THERE INTERNSHIP OPPORTUNITIES THROUGH THE McWHORTER SCHOOL OF BUILDING SCIENCE?**

YES, THE SCHOOL HAS STRONG INDUSTRY CONNECTIONS AND PROVIDES STUDENTS WITH INTERNSHIP AND COOPERATIVE EDUCATION OPPORTUNITIES TO GAIN PRACTICAL EXPERIENCE.

### **WHAT RESEARCH AREAS ARE EMPHASIZED AT THE McWHORTER SCHOOL OF BUILDING SCIENCE?**

RESEARCH FOCUSES INCLUDE SUSTAINABLE BUILDING PRACTICES, CONSTRUCTION TECHNOLOGY, BUILDING INFORMATION MODELING (BIM), PROJECT DELIVERY METHODS, AND SAFETY MANAGEMENT.

# How can prospective students apply to the McWhorter School of Building Science?

Prospective students can apply through Auburn University's admissions portal, selecting the Building Science program and meeting the required academic criteria.

## What facilities and resources are available to students at the McWhorter School of Building Science?

Students have access to advanced laboratories, computer labs with industry-standard software, a dedicated library collection, and collaboration spaces for project work.

## Additional Resources

### 1. *Foundations of Building Science: Principles and Practices*

This book provides a comprehensive introduction to the fundamental concepts of building science. Covering topics such as thermodynamics, moisture control, and materials science, it serves as an essential resource for students at the McWhorter School of Building Science. The text balances theoretical knowledge with practical applications, preparing readers for real-world challenges in construction and design.

### 2. *Building Systems Integration and Performance*

Focusing on the integration of mechanical, electrical, and structural systems, this book explores how different building components work together to optimize performance. It offers case studies and technical insights relevant to the curriculum at the McWhorter School. Readers will gain an understanding of system coordination, energy efficiency, and sustainable building practices.

### 3. *Construction Materials and Methods*

This text delves into the properties and uses of various construction materials, from traditional wood and masonry to advanced composites. It also covers modern construction techniques and best practices. Ideal for students at the McWhorter School, this book bridges the gap between material science and practical building applications.

### 4. *Sustainable Building Design and Technologies*

Addressing the growing importance of sustainability, this book covers eco-friendly design principles and emerging green technologies. It examines energy-efficient systems, renewable materials, and environmental impact assessments. Students at McWhorter School will find valuable guidance on creating buildings that meet contemporary sustainability standards.

### 5. *Structural Analysis for Building Science Professionals*

Designed to introduce students to the basics of structural analysis, this book explains how forces affect building stability and integrity. It includes worked examples and problem-solving exercises tailored to the McWhorter School curriculum. Readers will learn to evaluate loads, stresses, and design safe structural elements.

### 6. *Building Codes and Regulatory Compliance*

This essential guide covers the key building codes, regulations, and legal considerations affecting construction projects. It emphasizes the importance of compliance in ensuring safety and quality. The book is particularly useful for McWhorter School students preparing for careers in building inspection, project management, and construction law.

### 7. *Construction Project Management: Techniques and Tools*

Focusing on effective project planning and execution, this book introduces methods for scheduling, budgeting, and resource allocation. It incorporates software tools and real-world examples pertinent to the McWhorter School's approach. Students learn to manage construction projects efficiently from inception to completion.

#### 8. *BUILDING ENVELOPE DESIGN AND PERFORMANCE*

THIS BOOK EXPLORES THE DESIGN AND FUNCTION OF THE BUILDING ENVELOPE, INCLUDING WALLS, ROOFS, WINDOWS, AND DOORS. IT EMPHASIZES ENERGY EFFICIENCY, MOISTURE CONTROL, AND DURABILITY. McWHORTER SCHOOL STUDENTS WILL BENEFIT FROM DETAILED DISCUSSIONS ON MATERIALS SELECTION AND ENVELOPE DETAILING TO OPTIMIZE BUILDING PERFORMANCE.

#### 9. *ADVANCED HVAC SYSTEMS AND ENERGY MANAGEMENT*

COVERING HEATING, VENTILATION, AND AIR CONDITIONING SYSTEMS, THIS BOOK ADDRESSES ADVANCED TECHNIQUES FOR ENERGY MANAGEMENT AND INDOOR AIR QUALITY. IT INTEGRATES PRINCIPLES OF MECHANICAL ENGINEERING WITH SUSTAINABLE DESIGN PRACTICES. THE TEXT IS TAILORED TO MEET THE EDUCATIONAL NEEDS OF STUDENTS AT THE McWHORTER SCHOOL OF BUILDING SCIENCE.

## **Mcwhorter School Of Building Science**

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**mcwhorter school of building science: *Teaching in the Built Environment*** C. Ben Farrow, Eric Wetzel, Thomas Leathem, 2022-06-01 *Teaching in the Built Environment: Creating Transformational Active Learning Experiences* offers a blueprint for teaching success from an award-winning team of educators, with classroom-ready strategies for maximizing undergraduate learning in built environment disciplines. Drawing on the authors' years of experience as education researchers and faculty at one of the nation's top design and construction schools, this primer empowers instructors to implement high impact teaching practices in any educational setting, from intimate seminars to mega classes of hundreds of students. Chapters on internships, study abroad, and field experiences equip faculty with teaching tools guaranteed to work on or off campus. Just as importantly, this book identifies the teaching tactics that don't work. The authors' candid reflections on their own failed pedagogical experiments help instructors avoid confidence-shaking missteps and encourage them to turn teaching struggles into future successes. A thorough review of the latest education research provides theoretical context and empirical support for strategies direct from the authors' award-winning classrooms, studios, and labs. Features: Classroom-tested strategies for maximizing undergraduates' learning in built environment disciplines Adapted teaching methods from the authors' award-winning classrooms, studios, and labs to any higher education setting An ideal resource for built environment faculty, from first timers to veteran educators The latest research on teaching and learning in design and construction disciplines A must-read for built environment educators, from first-time faculty to classroom veterans, *Teaching in the Built Environment: Creating Transformational Active Learning Experiences* inspires teaching that will resonate long past the semester's end.

**mcwhorter school of building science: *Sustainable Ecological Engineering Design*** Lloyd Scott, Mohammad Dastbaz, Christopher Gorse, 2020-06-29 Through research and proven practice, the aim of the International Conference of Sustainable Ecological Engineering Design for Society (SEEDS) is to foster ideas on how to reduce negative impacts on the environment while providing for the health and well-being of society. The professions and fields of research required to ensure buildings meet user demands and provide healthy enclosures are many and diverse. The SEEDS conference addresses the interdependence of people, the built and natural environments, and recognizes the interdisciplinary and international themes necessary to assemble the knowledge required for positive change.

**mcwhorter school of building science: Narratives of Pedagogical Development and Navigation of Educational Contexts** Gierhart, Aaron R., 2025-06-19 Educators continually adapt and grow within the changing landscape of teaching and learning. As they respond to new challenges, ranging from policy reforms and technological shifts to diverse classroom dynamics, they craft personal and professional narratives that reflect their pedagogical approaches. These stories reveal how teachers make sense of their experiences, negotiate their roles, and strive to meet the needs of their students within complex educational settings. Understanding these journeys may offer valuable insights into the ways educators learn, reflect, and transform their practices. *Narratives of Pedagogical Development and Navigation of Educational Contexts* explores various stories of pedagogy and teaching as a process of growth and change. It presents an alternative to traditional views of teaching as a profession, examining the social and political forces impacting education and highlighting the realities of teaching amidst various social challenges and political issues. This book covers topics such as sociology, teacher training, and education policy and reform, and is a useful resource for educators, sociologists, policymakers, academicians, researchers, and scientists.

**mcwhorter school of building science: Construction Project Management** Joe F. McCarthy, 2010 .. integrates business knowledge, principles and practices of project management and construction management... will help you achieve a strategic vision, continuously improve construction operations and manage industrial, commercial and institutional projects from conception to occupancy. -- Publisher's description.

**mcwhorter school of building science: Collaboration and Integration in Construction, Engineering, Management and Technology** Syed M. Ahmed, Paul Hampton, Salman Azhar, Amelia D. Saul, 2020-12-21 This book gathers papers presented at the 11th International Conference on Construction in the 21st Century, held in London in 2019. Bringing together a diverse group of government agencies, academics, professionals, and students, the book addresses issues related to construction safety, innovative technologies, lean and sustainable construction, international construction, improving quality and productivity, and innovative materials in the construction industry. In addition, it highlights international collaborations between various disciplines in the areas of construction, engineering, management, and technology. The book demonstrates that, as the industry moves forward in an ever-complex global economy, multi-national collaboration is crucial, and its future growth will undoubtedly depend on international teamwork and alliances.

**mcwhorter school of building science: Research Methodology in the Built Environment** Vian Ahmed, Alex Opoku, Zeeshan Aziz, 2016-03-10 Built environment students are not always familiar with the range of different research approaches they could be using for their projects. Whether you are undertaking a postgraduate doctoral programme or facing an undergraduate or masters dissertation, this book provides general advice, as well as 13 detailed case studies from 16 universities in 7 countries, to help you get to grips with quantitative and qualitative methods, mixed methods of data collection, action research, and more.

**mcwhorter school of building science: Sustainable Civil Engineering at the Beginning of Third Millennium** Umut Türker, Özgür Eren, Eris Uygur, 2024-04-28 This volume comprises selected peer-reviewed proceedings of 15th International Congress on Advances in Civil Engineering (ACE 2023) was held in Famagusta, North Cyprus in September 2023. This proceedings covers all disciplines of Civil Engineering classified under six main topics: Construction Management, Hydraulics, Geotechnics, Materials, Structures, Transportation, and Civil Engineering Education. It covers highly diverse research topics including investigation in the areas of innovative materials in concrete production, recycling of waste in the construction industry, fibre reinforced and high strength concrete, soil stabilization, problematic soils of semi-arid and arid regions, deep foundations, staged construction modelling, repair and maintenance of reinforced concrete, earthquake engineering and seismic retrofitting, coastal and harbour engineering, water resources management, hydrology & hydraulics engineering, traffic engineering and urban transport, life cycle cost analysis, decision making strategies.

**mcwhorter school of building science: New Geospatial Approaches to the Anthropological**

*Sciences* Robert L. Anemone, Glenn C. Conroy, 2018-07-15 Spatial analysis reaches across all the subdisciplines of anthropology. A cultural anthropologist, for example, can use such analysis to trace the extent of distinctive cultural practices; an archaeologist can use it to understand the organization of ancient irrigation systems; a primatologist to quantify the density of primate nesting sites; a paleoanthropologist to explore vast fossil-bearing landscapes. Arguing that geospatial analysis holds great promise for much anthropological inquiry, the contributors have designed this volume to show how the powerful tools of GIScience can be used to benefit a variety of research programs. This volume brings together scholars who are currently applying state-of-the-art tools, techniques, and methods of geographical information sciences (GIScience) to diverse data sets of anthropological interest. Their questions crosscut the typical “silos” that so often limit scholarly communication among anthropologists and instead recognize a deep structural similarity between the kinds of questions anthropologists ask, the data they collect, and the analytical models and paradigms they each use.

**mcwhorter school of building science: Building Information Modelling (BIM) in Design, Construction and Operations IV** J. Casares, A. Galiano Garrigós, 2021-12-29 Containing papers presented at the 4th International Conference on Building Information Modelling (BIM) in Design, Construction and Operations, this volume brings together the research of experts from industry, practice and academia. It describes innovative solutions and predictions for future trends across key BIM-related topics. The modern construction industry and built environment disciplines have been transformed through the development of new and innovative BIM tools and techniques. These have fundamentally altered the manner in which construction teams operate; the processes through which designs are evolved; and the relationships between conceptual, detail, construction and life cycle stages. BIM is essentially value-creating collaboration throughout the entire life-cycle of an asset, underpinned by the data attached to them. BIM has far and reaching consequences on both building procurement and infrastructure. This recent emergence constitutes one of the most exciting developments in the field of the Built Environment. These advances have offered project teams multi-sensory collaborative tools and opportunities for new communication structures. The included papers cover such topics as: BIM in design coordination; BIM in construction operations; BIM in building operation and maintenance; BIM and sustainability; BIM and collaborative working and practices; BIM-Facilities management integration; BIM-GIS integration; BIM and automation in construction; BIM and health and safety; BIM standards; BIM and interoperability; BIM and life cycle project management; BIM and cultural heritage; BIM and robotics; BIM in risk analysis and management; BIM in building cost control; BIM and building representation; Virtual design and construction (VDC); BIM in the execution phase; BIM for infrastructure development; Digital twins.

**mcwhorter school of building science: Understanding BIM** Jonathan Ingram, 2020-06-15 Understanding BIM presents the story of Building Information Modelling, an ever evolving and disruptive technology that has transformed the methodologies of the global construction industry. Written by the 2016 Prince Philip Gold Medal winner, Jonathan Ingram, it provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages its effective use can provide to a project team. Ingram, who pioneered the system heralding the BIM revolution, provides unrivalled access to case material and relevance to the current generation of BIM masters. With hundreds of colour images and illustrations showing the breadth and power of BIM, the book covers: The history of BIM What BIM is in technical and practical terms How it changes the day to day working environment Why we need BIM and what problems it can solve Where BIM is headed, particularly with regards to AI, AR, VR and voice recognition International case studies from a range of disciplines including: architecture, construction management, and retail Professionals and students in any field where the inter-disciplinary aspects of BIM are in operation will benefit from Ingram’s insights. This book is an authoritative account of and reference on BIM for anyone wanting to understand its history, theory, application and potential future developments.

**mcwhorter school of building science: Recent Advancements in Civil Engineering** Boeing



Laishram, Abhay Tawalare, 2021-12-14 This book presents select proceedings of the International Conference on Advances in Civil Engineering (ACE 2020). The book examines the recent advancements in construction management, construction materials, environmental engineering, geotechnical engineering, transportation engineering, water resource engineering, and structural engineering. The topics covered include sustainable construction process and materials, smart infrastructures, green building technology, global environmental change and ecosystem management, theoretical and analytical solutions for foundation engineering, smart transportation systems and policy, GIS applications in water resource management, structural analysis for blast and impact resistance, and soft computing techniques in civil engineering. The book will be useful for researchers and professionals in the field of civil engineering.

**mcwhorter school of building science: Advances in Building Information Modeling** Salih Ofluoglu, Ozan Onder Ozener, Umit Isikdag, 2020-03-11 This book constitutes the refereed proceedings of the First Eurasian BIM Forum, EBF 2019, held in Istanbul, Turkey, in May 2019. The 16 full papers were carefully reviewed and selected from 44 submissions. The papers cover such topics as BIM adoption and implementation; BIM for project management; BIM for sustainability and performative design; BIM and facility management and infrastructural issues.

**mcwhorter school of building science: Advances in Materials Used in Civil and Construction Engineering** Syed Ali Rizwan, Shahid Ali, Muzna Anam, Bilal Zahid, 2025-07-09 This book provides a deep insight into the most recent breakthroughs and discoveries in numerous fields of civil engineering. The contributors to this collection include renowned researchers and intellectuals who share a love for civil engineering and a commitment to pushing the discipline's frontiers. They give fresh insights and answers on some of the most important difficulties confronting our modern society through their research, focusing on material sciences, the environment, hydrology, construction management, sustainability, and efficiency in building and infrastructure development. The variety of issues addressed in this book emphasizes civil engineering's multidisciplinary character and the critical role it plays in influencing the world we live in. Each page reflects the essence of development and the enormous influence of civil engineering on society, and each chapter will spark new ideas, encourage collaborations, and pave the way for a brighter, more sustainable future for us all.

**mcwhorter school of building science: Integrated Building Information Modelling** Peng Wu, Haijiang Li, Xiangyu Wang, 2017-07-10 Building information modelling (BIM) is a set of interacting policies, processes and technologies that generates a methodology to manage the essential building design and project data in digital format throughout the building's life cycle. BIM, makes explicit, the interdependency that exists between structure, architectural layout and mechanical, electrical and hydraulic services by technologically coupling project organizations together. Integrated Building Information Modelling is a handbook on BIM courses, standards and methods used in different regions (Including UK, Africa and Australia). 13 chapters outline essential information about integrated BIM practices such as the BIM in site layout plan, BIM in construction product management, building life cycle assessment, quantity surveying and BIM in hazardous gas monitoring projects while also presenting information about useful BIM tool and case studies. The book is a useful handbook for engineering management professionals and trainees involved in BIM practice.

**mcwhorter school of building science: Advances in Information Technology in Civil and Building Engineering** Adel Francis, Edmond Miresco, Silvio Melhado, 2025-03-13 This book gathers the latest advances, innovations, and applications in the field of information technology in civil and building engineering, presented at the 20th International Conference on Computing in Civil and Building Engineering (ICCCBE), held in Montreal, Canada on August 25-28, 2024. It covers highly diverse topics such as BIM, construction information modeling, knowledge management, GIS, GPS, laser scanning, sensors, monitoring, VR/AR, computer-aided construction, product and process modeling, big data and IoT, cooperative design, mobile computing, simulation, structural health monitoring, computer-aided structural control and analysis, ICT in geotechnical engineering,

computational mechanics, asset management, maintenance, urban planning, facility management, and smart cities. Written by leading researchers and engineers, and selected by means of a rigorous international peer-review process, the contributions highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

**mcwhorter school of building science: Designed for Habitat** David Hinson, Justin Miller, 2023-06-14 *Designed for Habitat: New Directions for Habitat for Humanity* presents 12 new projects designed and built via collaborations between architects and Habitat for Humanity®. The ways in which we think about affordable housing are being challenged by designers and not-for-profit housing advocates such as Habitat for Humanity and its affiliates. The projects chronicled in this book consider home affordability through the lens of monthly homeownership expenses, energy efficiency and residential energy use, and issues of designed resilience to natural events ranging from aging and accessibility concerns to natural disasters and climate change. New to this edition, the projects reflect new approaches to building scale, construction technology, energy and affordability, and design and context. Illustrated with over 100 color images, the case studies include detailed plans and photographs to show how these projects came about, the strategies used by each team to approach the design and construction process, and the obstacles they overcame to realize a successful outcome. The lessons and insights presented will be a valuable resource, whether you're an architect, an architecture student, a Habitat affiliate leader, or an affordable housing advocate.

**mcwhorter school of building science: Project Management and BIM for Sustainable Modern Cities** Mohamed Shehata, Fernanda Rodrigues, 2018-10-30 This volume presents innovative work on innovative methods, tools and practices aimed at supporting the transition of Asian and Middle Eastern cities and regions towards a more smart and sustainable dimension. The role of the built and urban environment are becoming more pronounced in Asia and Middle East as the regions continues to experience rapid increase in population and urbanisation, which have only led to an increase in environmental degradation but also rise in energy consumption and emissions. Individual chapters covers timely topics such as sustainable infrastructure, transportation, renewable energy, water and methods supporting an innovative and sustainable development of urban areas. Real-world examples are presented to highlight recent developments and advancements in design, construction and transportation infrastructures. The volume is based on the best contributions to the 2nd GeoMEast International Congress and Exhibition on Sustainable Civil Infrastructures, Egypt 2018 - The official international congress of the Soil-Structure Interaction Group in Egypt (SSIGE).

**mcwhorter school of building science: 8th International Conference on Engineering, Project, and Product Management (EPPM 2017)** Sümer Şahin, 2018-03-14 This book presents the proceedings of the 8th International Conference on Engineering, Project, and Product Management (EPPM 2017), highlighting the importance of engineering, project and product management in a region of the world that is in need of transformation and rebuilding. The aim of the conference was to bring together the greatest minds in engineering and management and offer them a platform to share their innovative, and potentially transformational, findings. The proceedings are comprehensive, multidisciplinary, and advanced in their approach with an appeal not only for academicians and university students but also for professionals in various engineering fields, especially construction, manufacturing and production.

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**Done in by Wawa, Sheets gas station closed** Tim-OBX Well, you can be sure it's not going to be a gas station! Since the building is built as one they may knock it down and start over. Ok, I'll start the rumors! Arby's, Popeyes

**KH McDonalds vs Wendy's | OBX Connection Message Board** I too miss Taco Bell and Hardees in KDH. Anyone who says the KH McD's is the slowest has obviously never been to the one in Manteo which is, and has been, the slowest

**Avon Pier sold. | OBX Connection Message Board** It appears it's been upgraded and has Taco Bell attached to it. If it's the same one, way back when, we were staying with friends at Pirate's Cove and just zipping around checking

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