

Appendix A: CADC Guidelines for Scholarly Activities/Awards and Evaluation of Significance Illustrating Benchmark Examples for Faculty in the McWhorter School of Building Science

A faculty member is encouraged to develop a substantial body of work in the course of the Promotion and Tenure (P&T) process. Candidates are expected to have meritorious performance in teaching and research/creative work or teaching and outreach. Meritorious performance in service is generally valued in the evaluation of collegiality.

Typical Significance Range: HD = Highest Distinction, D = Distinction, A = Adequate

- **HD:** Highest Distinction scholarship and/or award demonstrates national and/or international reputation (*expected in Associate to Full Professor promotion*)
- **D:** Distinction in scholarship and/or award demonstrates the faculty member's potential for building a national reputation (*Associate to Full Professor or Assistant to Associate Professor promotion*)
- **A:** Adequate Scholarship indicates general productivity

The faculty member will be responsible for making the case for evaluation of significance of scholarly contributions for review by the school promotion and tenure committee.

Categories of Activities (some activities fit into multiple categories)

- A1. Peer Reviewed Publications
- A2. Creative Work
- A3. Acknowledgement of Reputation, Expertise, and Peer Recognition
- A4. Funded Activities
- A5. Outreach Scholarship
- A6. Teaching Scholarship

A1. Peer Reviewed Publications

Category	Description and/or Benchmark	Rationale	Ranking			Examples of Highest Ranking
			HD	D	A	
A1.1. Disciplinary Book						
	Peer-reviewed book on a research subject published by a leading publisher such as Wiley, Springer, Taylor & Francis, Elsevier, MIT Press, etc.	Candidate's level of contribution (first or equal co-author are valued more); National/International adoption rate; Quality of publisher in the candidate's discipline or by other disciplines if the work is interdisciplinary or cross-disciplinary; Evidence of peer-review process	X	X		(1) BIM in Current and Future Practice by Wiley; (2) Waste Materials and By-Products in Concrete by Springer; (3) Fabricated: The New World of 3D Printing by Wiley; (4) Effectiveness of Green Design and Construction Principles, published by MIT Press
A1.2. Text Book						
	Peer-reviewed textbook on a related topic published by a leading publisher such as Wiley, Pearson, Cengage, Taylor & Francis, McGraw-Hill, etc.	Candidate's level of contribution (first or equal co-author are valued more); National/International adoption rate; Quality of publisher in the candidate's discipline or by other disciplines if the work is interdisciplinary or cross-disciplinary; Evidence of peer-review process	X	X	X	(1) Estimating in Building Construction by Pearson; (2) Managing the Construction Process by Pearson; (3) Sustainable Construction by Wiley; (4) Construction Planning, Equipment, and Methods by McGraw-Hill
A1.3. Edited Book, Edited Conference Proceedings, Edited Special Issue of a Journal						
	Book or conference proceedings or special journal issue on a related subject published by a recognized publisher in hardcopy or electronic (or both) format	Candidate's level of contribution (first or equal co-author are valued more); Regional/National/International readership; Quality of publisher		X	X	(1) nD Modeling: Constructing the Future by Taylor and Francis; (2) ASC Annual Conference Proceedings; (3) International Journal of Construction Education and Research Special Issue on Knowledge Management in Construction
A1.4. Manual, Handbook						
	Manual or handbook on a related topic/software/trade published by a recognized publisher in hardcopy or electronic (or both) format	Candidate's level of contribution (first or equal co-author are valued more); Regional/National/International readership; Quality of publisher		X	X	(1) Revit 2019 for Commercial Construction by SDC Publishers; (2) P6 Manual (3) AutoCAD Handbook

Category	Description and/or Benchmark	Rationale	Ranking			Examples of Highest Ranking
			HD	D	A	
A1.5. Book Chapter						
	Peer-reviewed chapter in a book published by a quality publisher	Candidate's level of contribution (first or equal co-author are valued more); Quality of publisher; Evidence of Inter-disciplinary or multi-disciplinary work; Reputation of the editor(s); National/International adoption rate	X	X	X	(1) Research Methodology in the Built Environment: A Selection of Case Studies by Routledge; (2) Waste and Supplementary Cementitious Materials in Concrete by Elsevier
A1.6. Journal Article						
	Peer-reviewed article in a quality journal such as Journal of Construction Education and Research, Automation in Construction, all ASCE Journals, etc.	Candidate's level of contribution (first or equal co-author are valued more); Quality/Impact factor of the journal; Journal's longevity and readership; Quality of publisher; Evidence of Inter-disciplinary or multi-disciplinary work; Rigor in the peer review process	X	X	X	(1) Journal of Construction Education and Research; (2) All ASCE Journals such as Journal of Management in Engineering; Journal of Construction Engineering and Management; etc. (3) Automation in Construction; (4) Journal of Green Building; (5) Journal of Research in International Education; (6) International Journal of Learning; (7) Journal of Built Environment Project and Asset Management; (8) Cement and Concrete Research; (9) International Journal of Construction Management; (10) Journal of Information Technology in Construction; (11) All ACI Journals.
A1.7. Conference Paper						
	Peer-reviewed article in a well-reputed national or international conference proceedings	Candidate's level of contribution (first or equal co-author are valued more); Level of venue (regional/national/international); Conference acceptance rate; Conference longevity and recognition in a candidate's discipline or as valued by other disciplines if the work is interdisciplinary or cross-disciplinary; Rigor in the peer review process		X	X	(1) ASC Annual Conference; (2) ASCE Construction Research Congress; (3) International Symposium on Construction Automation and Robotics (ISARC); (4) Construction in the 21st Century (CITC); (5) Creative Construction Congress (CCC); (6) Annual COBRA Conference; (7) Annual ISEC Conference; (8) The Canadian Society of Civil Engineering Construction Specialty Conference; (9) Engineering Project Organization Conference; (10) Annual AUBEA Conference; (11) All Conferences Organized by Reputable Professional Associations such as ASCE, CIB, ASTM, ACI, AISC, International Lean Institute, PMI, EPPM, etc.
A1.8. Published Report						
	Final report of a completed research project such as final report for NSF, CII, HUD, AGC, etc.	Candidate's level of contribution (first or equal co-author are valued more); Evidence of peer review process; Open/Close access (Open access reports are valued more)		X	X	(1) Final report of a research project sponsored by a research or professional organization; (2) Final report to a professional organization on a specific topic, (3) Final report to a city council on a specific issue, etc.
A1.9. Entry in a Book, Editorial						
	Contribution in a book or book chapter in the form of a case study or excerpt or editorial for a journal or book demonstrating recognition of the candidate and his/her research	Quality of publisher; Regional/National/International adoption rate			X	(1) Short case studies by various authors in text/research books such as Sustainable construction by Wiley or BIM handbook by Wiley; (2) Editorial for special issue of Automation in Construction Journal on 3D Printing
A1.10. Article in Professional Magazine						
	Article in Engineering News Record, AGC Constructor Magazine, Electri Magazine	Candidate's level of contribution (first or equal co-author are valued more); Magazine's level of distribution (regional/national/international)		X	X	National professional magazines which are not peer-reviewed but widely read by professional and educators such as Engineering News Record, Constructor Magazine, Electri International Magazine, Modular Building Institute Magazine etc.
A1.11. Poster at Academic or Professional Conference						
	Poster presented at the annual ASC, ASCE or CII conference	Candidate's contribution (first or equal co-author are valued more); Level of venue (regional/national/international); Acceptance rate; Evidence of peer review			X	Posters presented at most conferences are peer-reviewed abstracts or extended summaries such as ASC, ASCE, CII conferences.

Category	Description and/or Benchmark	Rationale	Ranking			Examples of Highest Ranking
			HD	D	A	
A1.12. Conference Presentation based on a Peer-Reviewed Abstract						
	Conference presentation based on acceptance of a peer-reviewed abstract or short summary	Candidate's contribution (first or equal co-author are valued more); Level of venue (regional/national/international); Acceptance rate; Evidence of peer review	X	X		Presentation made at the Annual CII Conference, Bi-Annual Conference of Construction History Society of America, Annual Conference of the Association for Preservation of Technology International (APT)
A2. Creative Work						
A2.1. Patents						
	Award of a provisional or full patent for a new or improved equipment, material, or process	Significance and scope of the patent, Level of impact, Evidence of license agreement with the industry	X	X		Award of a provisional patent: Distinctive scholarship; Formalized university sponsored license agreement or award of a full (non-provisional) patent: Highest distinctive scholarship
A3. Acknowledgement of Reputation and Expertise						
A3.1. Awards for Teaching, Research, Creative Work, Outreach or Service						
	Award by an established national and/or international academic or professional organization such as Outstanding International Teaching and/or Research Award by the Associated Schools of Construction	Level and impact of award (regional/national/international); Reputation of the awarding organization; Rigor in the awarding process	X	X	X	(1) Associated Schools of Construction (ASC) Annual International Awards; (2) AGC Outstanding Educator Award; (3) ABC Award for Excellence; (4) Best Conference Paper or Poster Award in a well-recognized conference; (5) PMI Research Achievement Award
A3.2. Chair or Endowed Professorship						
	Award of a Chair or Endowed Professorship by the school, college, university, or a professional association such as Building Science Aderholdt Professorship, Auburn University Alumni Professorship	Competitiveness of the award process; Evidence of peer review to demonstrate value or meritorious performance	X			(1) BSCI Aderholdt Professorship; (2) Hunt Professorship; (3) Wilborn Professorship; (4) BSCI Atlanta Alumni Professorship; (5) Auburn University Alumni Professorship
A3.3. Fellowship						
	Fellowship by a professional association to recognize candidate's contributions in the profession such as ACI Fellowship, ASCE	Competitiveness of the award process; Level of recognition (regional/national/international)	X	X		(1) ASCE Fellow; (2) ACI Fellow; (3) AIA Fellow
A3.4. Keynote Speech, Invited Presentation, Invited Lecture						
	Keynote or invited speech at an international or national event, Invited presentation or lecture in a peer program	Significance of the event; Competitiveness of the invitation process; Level of impact	X	X	X	(1) Keynote speech at the ASC/ASCE/CIB conference; (2) Keynote speech at the AGC convention; (3) Invited presentation at the AGC IT forum
A3.5. Service and Leadership Activities						
	Executive member of an academic or professional organization/association such as an Associated Schools of Construction (ASC) board member	Selection process (nomination/invitation/election), Level of appointment (international/national/regional); Reputation of the organization/association	X	X	X	(1) Professional or Academic Association President or Vice President; (2) Professional or Technical Committee Chair; (3) Regional/National/International Organization Director; (4) Honors Society President
A3.6. Citations						
	Citations Count or h/10 indices to recognize candidate's national or international reputation in research and/or outreach	Citations or Indices source and credibility	X	X	X	(1) Google Scholar citations profile; (2) Taylor and Francis citations records, etc.

Category	Description and/or Benchmark	Rationale	Ranking			Examples of Highest Ranking
			HD	D	A	
A3.7. Judge or Juror in a Competition						
	Judge or juror in a competition or award selection such as juror for a best paper award	Competition level (regional/national/international)	X	X		(1) Juror for the ASC Best Paper or Poster award; (2) Juror for a construction competition
A3.8. Expert Testimony						
	Expert testimony to legislative or professional organization	Level of significance and impact	X	X		Expert testimony to legislative about a building code or construction accident
A3.9. Grant Reviewer						
	Grant reviewer for a research funding organization such as NSF, CII, etc.	Level of grant agency (international/national/regional), Number of grant proposals reviewed	X	X		(1) Grant reviewer for NSF, CII, NIOSH, etc.; (2) Grant reviewer for an international agency or university such as University Grants Council of Hong Kong, NSF of China
A3.10. External Examiner						
	External examiner for a Ph.D student or a research project	Level of significance and impact	X	X		(1) Ph.D. examiner for a peer international and/or national program; (2) External examiner to review final outcome/report of a research project
A3.11. Book Reviewer						
	Reviewer for a research, text, or edited book or book chapter	Level of significance and impact			X	(1) Reviewer of a textbook on Estimating; (2) Reviewer of a software manual
A3.12. Media Acknowledgement						
	Media acknowledgement of candidate's work or expertise	Level of significance and impact	X	X	X	(1) ENR article about candidate's research and/or teaching; (2) Media report about a candidate's outreach work; (2) Participation in a TV show to showcase his/her research/outreach work
A3.13. Supervised Work Resulting in Fellowship/Award						
	Supervision of undergraduate or graduate research work that results in a professional fellowship and/or award	Level of engagement, Type of award	X	X		Distinction: Supervised work resulting in a student award
A4. Funded Activities						
A4.1. External Grants and Contracts						
	External grant or contract from a funding agency or foundation such as NSF, CII, AGC foundation	Level of engagement (PI/Co-PI/Co-Investigator); Quality of Granting Agency as valued by the candidate's discipline or as valued by other disciplines if the work is interdisciplinary or cross-disciplinary; Rigor in peer-review process, Funding amount; Scope of work; Scholarship output	X	X		Examples of Highest Distinction: NSF grant, CII grant, HUD grant, PMI grant, Electric International grant, AGC foundation grant
A4.2. External Funding from Industry Collaboration						
	External grant from a company or consortium	Level of engagement (PI/Co-PI/Co-Investigator); Reputation of the funding organization as valued by the candidate's discipline or as valued by other disciplines if the work is interdisciplinary or cross-disciplinary; Rigor in peer-review process; Funding amount; Scope of work; Scholarship output	X	X	X	Research or outreach grant by a specific construction company or a consortium

Category	Description and/or Benchmark	Rationale	Ranking			Examples of Highest Ranking
			HD	D	A	
A4.3. Other types of External Funding (i.e. funding for outreach from an organization)						
	External grant from a construction company or organization for outreach work	Level of engagement (PI/Co-PI/Co-Investigator); Reputation of the funding organization as valued by the candidate's discipline or as valued by other disciplines if the work is interdisciplinary or cross-disciplinary; Rigor in peer-review process; Funding amount; Scope of work; Scholarship output	X	X	X	Outreach grant provided by a design/construction company, an NGO, trust, etc.
A4.4. Internal Funding from University Programs						
	Funding provided through a university program such as Auburn University Intramural Grants	Level of engagement (PI/Co-PI/Co-Investigator); Rigor in peer-review process, Funding amount; Scope of work; Scholarship output			X	(1) Daniel F. Breeden competitive grant-in-aid for faculty enhancement; (2) AU intramural grants program; (3) AU outreach grants; (4) AU grant to enhance undergraduate research; (5) AU international collaboration grants
A4.5. Internal Funding from College/School						
	Funding provided through a college or school program such as CADC seed grant	Level of engagement (PI/Co-PI/Co-Investigator); Rigor in peer-review process, Funding amount; Scope of work; Scholarship output		X	X	(1) CADC seed grants program; (2) Grants provided by the Center for Construction Innovation and Collaboration
A5. Outreach Scholarship						
A5.1. Instructional Activities						
	Service learning project, Continuing education workshop, Technical training camp	Level of engagement (Sole-Instructor/Co-Instructor); Scope of work; Significance and impact (international/national/regional), Scholarship output	X	X	X	(1) 20K house; (2) Tiny home for a veteran; (3) Workshop on Use of Drones in Construction; (4) OSHA 10-hours safety training for a non-profit organization
A5.2. Technical Assistance						
	Community engagement or welfare projects	Level of engagement (Sole-Instructor/Co-Instructor); Scope of work; Significance and impact (international/national/regional), Scholarship output		X	X	(1) Design or construction assistance for a community project such as design/estimate/schedule development and/or reviews
A5.3. Publications of Outreach Scholarship						
	Book, Journal paper, Conference paper, etc. (see all items listed under Peer-Reviewed Publications)	Candidate's level of contribution (first or equal co-author are valued more); Quality/Impact factor; Longevity and readership; Quality of publisher; Rigor in the peer review process	X	X	X	Specific examples of outreach journals: (1) Journal of Community Engagement and Scholarship; (2) Journal of Higher Education Outreach and Engagement; (3) International Journal of Research on Service-Learning and Community Engagement
A5.4. Poster Session						
	Display of outreach work in a poster session	Level of impact (International/National) and significance, Acceptance rate, Rigor in peer-review process		X	X	(1) Poster presentation at the ASC/ASCE/CII/CIB etc. conference; (2) Poster presentation at a USAID event

Category	Description and/or Benchmark	Rationale	Ranking			Examples of Highest Ranking
			HD	D	A	
A5.5. Outreach Publications, Reports, Electronic Products						
	Final report of a outreach project, a handbook, an instructional manual or video	Candidate's level of contribution (first or equal co-author are valued more); Evidence of peer review process; Open/Close access (Open access is valued more)	X	X		(1) Final report of an outreach project to USAID; (2) Instructional manual for building a 20K house; (3) An instructional video for building rammed earth walls
A5.6. Outreach Grants, Contracts, and Gifts						
	External or internal grant or a gift for an outreach or community engagement project (see all items listed under Funded Activities)	Level of engagement (PI/Co-PI/Co-Investigator); Quality of Granting Agency or Foundation or Company as valued by the candidate's discipline or as valued by other disciplines if the work is interdisciplinary or cross-disciplinary; Rigor in peer-review process, Funding amount; Scope of work; Scholarship output	X	X	X	(1) Examples of Highest Distinction: Grant from USAID, UNDP, Bill Gates Foundation; (2) Internal grants are considered at distinction or adequate level
A5.7. Patents, Copyrights, Inventions						
	Award of a patent or copyrights for a new or improved equipment, material, or process	Significance and scope, Level of impact, Evidence of license agreement with the industry	X	X		Award of a provisional patent or copyright: Distinctive scholarship; Formalized university sponsored license agreement or award of a full (non-provisional) patent: Highest distinctive scholarship
A5.8. Lectures/ Presentations						
	Invited lecture or presentation at an international or national event or in a peer program	Significance of the event; Competitiveness of the invitation process; Level of impact		X	X	(1) Invited presentation at a AGC/ABC event; (2) Invited lecture in a peer program
A6. Teaching Scholarship						
A6.1. Receipt of Teaching Related Awards						
	External (such as Outstanding International Teaching Award by the Associated Schools of Construction) or Internal (University/College/School)	Level (external/internal) and impact of award (regional/national/international); Reputation of the awarding organization; Rigor in the awarding process	X	X	X	HD: International Teaching Award; D: National Teaching Award; A: University or School Level Award
A6.2. Publications of Teaching Scholarship						
	Book, Journal paper, Conference paper, etc. (see all items listed under Peer-Reviewed Publications)	Candidate's level of contribution (first or equal co-author are valued more); Quality/Impact factor; Longevity and readership; Quality of publisher; Rigor in the peer review process	X	X	X	Specific examples of teaching scholarship journals: (1) International Journal of Construction Education and Research; (2) American Educational Research Journal; (3) Journal of Pedagogical Research
A6.3. Poster Session						
	Display of pedagogical research work in a poster session	Level of impact (International/National) and significance, Acceptance rate, Rigor in peer-review process		X	X	(1) Poster presentation at the ASC/ASCE/CII/CIB etc. conference
A6.4. Scholarship on Curriculum Development, International Program Development						
	Scholarship in these areas would transform the teaching activity into teaching scholarship	Level of impact (International/National) and significance, Acceptance rate, Rigor in peer-review process	X	X	X	(1) Highest Distinction: Journal paper on development and evaluation of a new international student exchange or study abroad program; (2) Distinction: Conference paper on a new course on Modular Construction

Category	Description and/or Benchmark	Rationale	Ranking			Examples of Highest Ranking
			HD	D	A	
A6.5. Publications or Reports						
	Final report of a teaching enhancement project or expert report on a particular pedagogy	Candidate's level of contribution (first or equal co-author are valued more); Evidence of peer review process; Open/Close access (Open access is valued more)	X	X		(1) Final report for teaching Structures course in Active Classroom Learning; (2) Best practices report for online teaching
A6.6. Teaching Grants						
	External or internal grant for teaching enhancement (see all items listed under Funded Activities)	Level of engagement (PI/Co-PI/Co-Investigator); Quality of Granting Agency or Foundation or Company as valued by the candidate's discipline or as valued by other disciplines if the work is interdisciplinary or cross-disciplinary; Rigor in peer-review process, Funding amount; Scope of work; Scholarship output	X	X	X	(1) Examples of Highest Distinction: Grant from NSF or Department of Education; (2) Internal grants are considered at distinction or adequate level
A6.7. Lectures/ Presentations						
	Invited lecture or presentation at an international or national event or in a peer program	Significance of the event; Competitiveness of the invitation process; Level of impact	X	X		(1) Invited presentation at a Higher Education Conference; (2) Invited Presentation at a ACCE Meeting
A6.8. Supervision of Graduate Work						
	Supervision of graduate capstone for on-campus or distance learning students	Level of engagement (Major Professor or Committee Member), Scholarship output	X	X		Distinction: Supervised work resulting in a peer-reviewed publication