Affecting Change in Architectural Education

Leonard Bachman, The University of Houston-Central
Christine Bachman, The University of Houston-Downtown

“The only sure sign of life is growth, and the only sure sign of growth is change.”
Unknown

Architecture concerns not so much an explicit body of transmittable knowledge and protocols as it does a set of implicit understandings, sensitivities and sensibilities. The education of an architect therefore concerns the mission of endowing candidates with those implicit traits. This is not to say that architects do not possess and wield prodigious amounts of explicit cognitive knowledge, because they certainly do. But that explicit component of architectural know-how is actually vested in and deployed by the architect not so much because the knowledge has been invented, discovered, or developed by architects; but rather because they have assimilated it from other disciplines in a special way that gives architects adductive and hermeneutic insight into vast, detailed, and complex design challenges. Engineers make better machines, artists make more meaningful artifacts, and psychologists provide better human environments; but architects are trained to see the underlying opportunity and potential celebration of how those constituent menus might become a feast. In any unresolved complex of space, material and form, architects grasp a unique essence in how they perceive the “happily ever after” of what it might be and how that vision might be made whole and concrete. By the time a student of architecture is fully indoctrinated, this grasp of an underlying ideal essence is so potent that it becomes the student’s identity… and the purpose of that insight becomes an irresistible intention.

The transmission of this set of implicit understandings is however, not as mystical as we perhaps allow ourselves to believe, and our lack of second order insight in this transmission has little to do with the nature of architectural education. Rather, it results from our meager amount of rigorous discourse and introspection on what learning outcomes should be and how they could be continually refined. To be sure, there is a great deal of well-reasoned and learned argument about architectural education. The corresponding literature of empirical investigation however, is a relative vacuum. This void of empirical insight is the direct result of how architectural educators themselves came to be educated and therefore how they educate; namely by the same means of discourse and argument regarding the understanding, sensitivity and sensibility they find in their own critique of student work… just as their teachers once did in theirs.

This reliance on an argumentative and implicit knowledge base as the generator of architectural pedagogy has been arguably quite successful to date. It is after all, self replicating and serves to regenerate and repopulate the profession. Our studio-based problem-solving approach even seems to have anticipated higher education’s recent turn to active learning, student centered learning and other such worthwhile evolutions. The problem however is that this mismatch of architecture-as-topic with education-as-medium has left the compound verb of architectural-education stuck in a self-referential, unreflective, and self-satisfied state. Critique of the existing paradigm is mostly hushed. Change has been very difficult and very slow in this realm of education, and progress based on empirical evidence is almost non-existent. This volume of the ARCC Journal investigates how that situation might be changed.

And things are changing. As the opening quote suggests, architectural education is a living thing and its growth connotes change. The problematic conflation of architectural knowing with architectural teaching is increasingly being challenged. In the Kuhnian sense, the paradigm has already eroded. The world we serve is changing, the profession is changing, and education is changing. Consequently, some fundamental precepts of architectural education are changing too.

Roots of this transformation grow from the fertile soil of postindustrial society and our knowledge-based production of value. Evidence trumps argument, just as nutrition must trump cuisine even though they are not mutually exclusive. The culture of argument which forms the discourse of architectural critique is being usurped on many fronts by the rising culture of evidence. Critical argument is of course well suited to the complex and sublime nature of design as an activity and it works well as an intersubjective measure-by-agreement. Some radical reorientation is however, needed to adapt it to our current best practice knowledge about evidence based teaching and learning. The topic and the medium need realignment.

The forces for change are many and mounting. The laundry list is long, but here are some high points:

• Current writings on the basis of creativity often contradict strategies used in the mainstream of design studio learning

• Research on what constitutes a coherent curriculum differs from the typical studio-centric nature of architecture schools
Pressures to engage a systematic and empirical process of operationalizing and then measuring student learning outcomes are emerging in the postindustrial era of evidence based learning and university level accreditation standards.

The collateral organizations of architectural education in both the US and the UK are at a point of change. In 2008 alone, major conferences and institutional studies were held to “reconsider architectural education,” and to rework the basis of accreditation standards… witness the 2009 NAAB Conditions.

Educational practice is becoming more learning outcome driven and less teacher centered; evidence of good teaching is meaningless unless supported by evidence of corollary student learning.

Educational technology is increasingly prevalent in all aspects of learning; not only is the access to information vastly expanded, but the ability to experience other places and interact with people outside the academy is broadly enhanced.

Studio culture summits have been held in the US and UK to re-examine the strengths and weaknesses of studio education, and to move the agenda forward on healthier habits and positive learning environment, as well as time and workload management.

Issues such as climate change and social justice are in competition with the cultural based drivers of traditional architecture as a design ethic, and the social issues are winning out.

Professional practice is merging previously separate design protocols. Sustainable Design, Building Information Modeling, and Integrated Practice are combining formal design with continuous performal evaluation… and the profession is looking to the schools to be part of the transition.

Assuming that any meaningful portion of the above reasoning is on target, the opportunity to affect positive change in architectural education is at hand. Equally significant is the opportunity to embed a culture of continual refinement based on empirical evidence. Given the inertia of outside forces, this new culture seems inevitable. It would be far better if architectural educators were to engage this transformation proactively by using their own model of critique and discourse, mixed with a bit of objectivity borrowed from the postindustrial knowledge society in which they are now situated.

This issue of the ARCC Journal provides and promotes discourse on those issues. Content includes five peer reviewed papers on the topic, and an invited article on the design of learning outcomes. This issue concludes with panel discussion with four important voices each expressing critical perspectives on the theme of change in architectural education.