

**FLORIDA BUILDING COMMISSION  
TAC CHAIRPERSONS MEETING  
The Biltmore  
1200 Anastasia Avenue  
Coral Gables, Florida 33134  
August 14, 2018  
2:00 PM**

***MINUTES***

**TAC CHAIRMAN PRESENT:**

Jay Carlson, FBC Chairman	Jeff Gross, Accessibility
Steve Bassett, Mechanical	Don Whitehead, Special Occupancy
Fred Schilling, Plumbing	Jim Schock, Structural
Shane Gerwig, Code Administration	Drew Smith, Energy
Kevin Flanagan, Electrical	Brian Swope, Roofing
Hamid Bahadori, Fire	

**TAC CHAIRMAN NOT PRESENT:**

James Batts, Swimming Pool

**COMMISSIONERS PRESENT:**

Commissioner Boyer

**STAFF PRESENT:**

Tom Campbell	Mo Madani
Justin Vogel	Chris Howell
Jim Hammers	

**MEETING FACILITATION:**

The meeting was facilitated by Jeff Blair from the FCRC Consensus Center at Florida State University. Information at: <http://consensus.fsu.edu/>

**Welcome:**

**Time: 2:00 p.m.**

Chairman Carlson welcomed everyone to the annual meeting of TAC Chairman in Coral Gables, FL. He stated to set the stage for this meeting it is important to clarify that certain projects that are being proposed to the Commission have to meet certain criteria. Chairman Carlson stated the basic criteria are the determination of whether or not a project can be classified as a research project or a project for technical enrichment. He stated he would like to briefly go over those definitions and after that he will turn the floor over to Mr. Madani to discuss the available funding sources and provide the research review and timeline for this particular meeting.

**Roll Call:**

Jeff Blair performed roll call and a quorum was determined with 10 members present 11 seated including Chairman Carlson, FBC.

**Agenda Approval:**

Chairman Carlson asked for a motion to approve the agenda as it was posted.

Commissioner Schilling entered a motion to approve the agenda; the motion was seconded by Commissioner Smith. The motion passed unanimously with a vote of 10 to 0.

**Minutes and Facilitation Report Approval:**

Chairman Carlson asked for a motion to approve the minutes/facilitation report from the August 7, 2017 TAC Chairman Meeting.

Commissioner Swope entered the motion to approve the minutes/facilitation report from the August 7, 2017 TAC Chairman Meeting. Commissioner Gerwig seconded the motion. The motion passed unanimously with a vote of 10 to 0.

**Process:**

Mr. Blair explained the process for the Chairperson TAC meeting and the ranking process with the funding for those that meet the criteria. He also spoke to those who might be making presentations about time limitations.

**Definitions:**

Chairman Carlson continued with the following definitions for research and technical enrichment as it pertains to research projects for today.

**Research:** An important and necessary endeavor that aimed at studying specific code related issue(s)/topics for the purpose of providing solutions to a specific problem or future code change(s) directed at improving the implementation and enforcement of the FBC. The issue to be researched must be fully understood (i.e. with clear purpose of doing the research/goals); clearly defined with specific scope of work/approach; and within budget.

**Technical Enrichment:** An important and necessary endeavor that is aimed at evaluating complex related code issue(s)/topics for the purpose of providing educational/clarification experience or alternative solutions directed at improving the implementation and enforcement of the FBC. Method of delivery for these matters is through workshop/TAC meetings with specific participation of expert(s) in subject area of concern.

Chairman Carlson advised that Mr. Madani will now explain the funding measures and the criteria.

**Funding and Criteria:**

Mr. Madani reported that the Commission has approximately \$400,000 available for funding research projects for fiscal year 2018 - 2019. He said that there is a request for \$653,914 - \$670,914 in funding. Mr. Madani also noted that of the \$400,000 available for funding, \$53,500 is needed for funding research projects required for development of the 2020 Florida Building Code, leaving available funding of approximately \$346,500. He further stated the total amount of funding required to fully fund the 11 remaining eligible projects is \$653,914 - \$670,914 representing a funding deficit of from \$307,414 - \$324,414

**Workplan:**

Mr. Madani provided the work plan in detail with the time table attached to the agenda posted on the BCIS.

**TAC Consideration and Evaluation of Proposed Research Projects:**

Mr. Blair provided the process for the evaluation of the proposed research projects.

Mr. Blair continued by providing the following process that the TAC Chairs would use for the evaluation.

### **TAC Consideration and Evaluation of Proposed Research Projects (cont.)**

:

- Incomplete project proposals (3 projects)—projects with no funding estimate provided and/or no written proposal submitted—will not be considered for evaluation during the TAC Chairs' meeting.
- Projects proposals (1 project) required for the development of the 2020 FBC will be funded, and will not be included in the prioritization exercise.
- Remaining project proposals (11 projects) in turn, will be tested with a straw poll vote regarding whether they meet the criteria for funding, those that achieve a 75% threshold on the straw poll will then receive a formal vote by the TAC chairs. PI's whose projects don't achieve a 75% straw poll level of support will be provided up to 3 minutes to address why their research project is consistent with the criteria for funding prior to the TAC Chairs' formal vote regarding the same.
- Proponents with projects that are deemed to meet the criteria for funding will have 15 minutes total to present their proposal.
- Once all research project proposals meeting the criteria are presented by the PIs and public comment received, TAC Chairs will participate in a ranking exercise to determine the relative priority of each proposed project based on the adopted criteria and using the ten-point ranking scale described in the Ranking Matrix. Once ranked the TAC chairs will discuss how much funding to provide for proposals (Full/Partial/None) based on the available funding level.

Mr. Blair then asked the TAC chairs to review the three criteria and decide whether each of the 11 eligible proposed research projects met the criteria for funding: 1.) definition of research and/or technical enrichment; 2.) urgency/immediacy, and needed for the 2020 FBC, and/or legislative directive; and, 3.) funding available (full or partial).

Mr. Blair advised that there were 11 proposed projects that provided a complete application including a cost estimate were each considered regarding whether they met the criteria for funding.

The TAC Chairs' considered each of the projects in turn by conducting a straw poll regarding whether the project met the criteria for funding, and if a 75% or greater ranking threshold was achieved then a formal vote was conducted. In instances where a less than 75% ranking threshold was achieved, the proponent for the project was provided three minutes to explain why their project met the criteria, and subsequently a formal vote was conducted.

**Projects Recommended by TACs required for 2020 Code:**

Mr. Blair announced that the following project would be recommended to be fully funded for the development of the 2020 Florida Building Code with a total cost of \$53,500.

Quantitative and Economic Analysis of the 7th Edition Florida Building Energy Code: {Energy TAC}; (Bereket Nigusse and Muthusamy Swami, FSEC); [\$53,500]

**Projects determined not to meet criteria:**

#2.) Florida Energy Code Compliance Field Study; Bryan Holland, NEMA

#7.) Hybrid Systems with sealed attics; Tim Grabowski;

#12.) Identify Potential Code Modifications Needed to Enhance Electrical Safety at Existing swimming pools; Bryan Holland, NEMA

**Projects determined to meet criteria:**

The TAC chairs voted that the following 9 of the 12 eligible projects met the criteria and should be evaluated for funding (\$346,500):

Presentations were offered by FSEC, Rob Vieira, Dr. David Prevatt, UF, Jayantha Obeysekera, FIU, and Dan Lavrich

- Florida Code Energy Impacts of Dehumidifier Configuration; Charles Withers, FSEC; \$31,500
- Proposal to Study Utilization and Cost of Electric Receptacle Control Per Florida Code Requirement; Joe Territo/Charles Withers, FSEC; \$21,000
- Removing ventilation from attics; Steve Bassett and FSEC; \$110,000
- Florida Code Residential Photovoltaic (PV) System Installation Inspections; Jeff Sonne, and Donald Metzger, FSEC; \$65,000 - \$79,000
- Proposals for Assessing Performance of Vinyl Siding and Soffits following Premature Failures in Hurricane Irma; Dr. David Prevatt, UF \$239,823
- A study of the water resistance performance of the exterior envelope of buildings, particularly relating to the fenestrations, during minimal high wind events (Hurricane Irma);” Dan Lavrich; (Technical Enrichment: No Funding Needed)
- Potential Implications of sea-level rise and changing rainfall In Florida Building Code for communities in Florida using Miami-Dade County as a model; Jayantha Obeysekera, Mike Sukop, and Tiffany Troxler, Sea Level Solutions Center, Florida International University, FIU; (\$141,591)

- Adult Changing Tables; Brad Schiffer and Sabrina Kimball; (\$9,000)
- Establish Bed Height, Bed Frame and Scoping Recommendations for the Florida Specific Accessibility/Transient Housing Section of Code; Diana Worrall; (\$5,000)

**Projects that were determined not to meet the criteria (3):**

- Cost Benefit Analysis of Requiring Limited Photovoltaic and Electric Vehicle Charging Infrastructure in New Construction; John Hall, Jeffrey Sonne, Richard Raustad and Donard Metzger, FSEC; (\$22,000)
- Study Showing Residential Electrical Fires in Florida Have Been Reduced with Each Expansion of the AFCI Requirements Contained in the NEC; Neal Burdick; (\$9,000 - \$12,000)

**Recommendations:**

The following are the projects recommended for funding by the Chairperson TAC to the Commission within the \$400,000 allocation.

TAC Chairs Research Project Funding Recommendations to the Commissions:

<b>Project</b>	<b>Funding</b>	<b>Comments</b>
Energy TAC	\$53,500	Needed for 2020 Code

<b>Project</b>	<b>Funding</b>	<b>Comments</b>
Structural P2: Water resistance of envelope	0	Technical Enrichment (Workgroup)
Accessibility P1: Bed height	\$5,000	
Mechanical P2: Dehumidifier configuration	\$31,000	
Structural P3: Sea level rise	\$127,883	
Accessibility P1: Adult changing tables	\$9,000	
Mechanical P1: Removing attic ventilation	\$53,705	
Elec. P2: Cost electrical receptacle controls	0	
Structural P1:	\$119,912	
Roof P1/Stru. P4/Elec. P5: Residential PV	0	
<b>Total</b>	<b>346,500</b>	
<b>Grand Total</b>	<b>400,000</b>	

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Commissioner Bahadori entered a motion to recommend the Commission approve funding the research projects for fiscal year 2018 - 2019 as recommended by the TAC chairs on the basis that the proposed projects evaluated meet the three criteria for funding: 1.) definition of research and/or technical enrichment, 2.) urgency/immediacy, and needed for the 2020 FBC and/or legislative directive, and 3.) funding available (full or partial), and should be approved for funding based on the funding levels recommended by the TAC chairs (\$400,000), and staff administering and overseeing the research, and negotiating contracting, funding levels, and scoping as appropriate. Commissioner Smith seconded the motion. The motion passed with a vote of 8 members in favor and 2 members opposing.

**Public Comment:**

None

**TAC Comment:**

None

Chairman Carlson thanked everyone for their participation of this process and there being no further business adjourned the meeting at 5:19 p.m.