

# How to write a successful Research Topic Acceptance Request (RTAR)

- You can do it! It's easy but not painless.
- Clearly Identify research topic
  - From TC Subcommittee research list and discussion with Research Subcommittee Chair
  - From discussion with other relevant TCs
  - From discussion with research community outside of ASHRAE
  - Have a brief discussion with research liaison
- Quantifiable justification and state-of-the-art
- Provide all required information on RTAR form
- If you need help, don't hesitate to contact Research Subcommittee Chair, other members of TC, or research liaison.
- Make the time to think
- Make the time to write

# Relate to ASHRAE research

- **Focus on the ASHRAE Strategic Plan for Research**
  - RTARs that identify with the specific Strategic Plan goals get accepted
    - <http://www.ashrae.org/technology/page/39>
  - Once topic is selected, discuss briefly with Research Subcommittee Chair and research liaison.

# Clearly Identify research topic and its value

- Review key literature - RTARs that demonstrate a firm grasp of relevant prior work get accepted.
- Clearly define the State-of-the-Art and highlight gaps - do not leave RAC wondering if it's been done before
- Define a valuable and achievable objective – will the make a significant contribution show RAC that the work is well conceived.
- Coordinate with other relevant TCs – this minimizes the chance that there is overlap with other RTARs and allows for more thorough evaluation of topic.
- Discuss topic and objective with research subcommittee chair and liaison
- Actively solicit co-funding - RTARs that have been reviewed by another funding organization that express support get extra consideration.

**It pays to do your homework!**

# Make your case

- **Clearly Identify the Research Strategic Plan goals served** – RTARs get accepted that identify specific ASHRAE goals and how research achieves them.
- **Clearly define the Advancement to the State-of-the-Art** - RTARs that provide quantitative estimates of the improvement expected get accepted.
- **Clearly define the Justification and Value to ASHRAE**
  - Identify by number, profession or industry the ASHRAE members impacted.
  - State the likelihood that the improvement developed through the research would be adopted.
  - Quantify the anticipated time period over which widespread adoption would take place.
  - Indicate likelihood of ASHRAE intellectual property.
- **Provide realistic estimated costs and duration**

# Work with your Research Liaison

- Make sure your research liaison is informed!
  - Liaisons present arguments for your RTAR to the entire RAC. A liaison knowledgeable about your project is better able to persuade RAC to approve it.
- Briefly discuss topic with liaison before starting RTAR
- Have your liaison review the RTAR before the TC vote!
  - Liaisons can identify reasons the RTAR might be returned before you vote it and submit it to MORTS/RAC, saving you at least 6 months!
- If your project is unusual, controversial, or urgent (or if you happen to have free time) attend the relevant RAC meeting to speak for RTAR and answer questions.

# Use the RTAR form!!

<http://www.ashrae.org/technology/page/39>

(EXAMPLE)

Unique Tracking Number Assigned by MORTS \_\_\_\_\_  
RESEARCH TOPIC ACCEPTANCE REQUEST (RTAR) FORM  
(2 pages suggested, 3 pages maximum)  
TC/TG: \_\_\_\_\_

Title:  
(Concise as possible)

Applicability to ASHRAE Research Strategic Plan:  
Indicate which specific goal(s) on the ASHRAE Research Strategic Plan 2005-2010 (Navigation for a Sustainable Future) this topic will address, to what degree, and why. (NEW!)

Research Classification: \_\_\_\_\_ TC/TG Priority: \_\_\_\_\_  
(Basic/Applied Research; Advanced Concepts; or Technology Transfer) (1, 2, or 3)

TC Vote: \_\_\_\_\_ Reasons for Negative Votes and Abstentions:  
(For -Against-Abstentions-Absent-Total) (Negative Votes)  
(Abstentions)

Estimated Cost: \_\_\_\_\_ Estimated Duration: \_\_\_\_\_  
(Estimate total dollars) (Months to complete)

Other Interested TC/TGs:  
(List only those TC/TGs that have reviewed this RTAR and expressed support)

Possible Co-funding Organizations:  
(List only those organizations, which have reviewed this RTAR and expressed support)

Application of Results:  
(Handbook chapters/special publications etc. to be affected by results of this project)

State-of-the-Art (Background):  
(Briefly describe the amount and quality of past research, and quantify existing gaps)

Advancement to the State-of-the-Art:  
(Provide a quantitative estimate of the improvement expected from this research [i.e. x% energy reduction in product y or building type z, x% increase in heat transfer coefficient between y and z, or x% reduction in design time to do y, etc.] )

Justification and Value to ASHRAE:  
(Identify by number, profession, or industry the ASHRAE members impacted. State the likelihood and how the improvement would be adopted by industry. Quantitatively estimate the timeframe over which x% of society in total would be impacted. Indicate the likelihood of ASHRAE obtaining any intellectual property rights from this project.)

Objective:  
(Succinctly state how this project will accomplish its intended advancement to the state-of-the-art [i.e. a computer simulation will be used to do x, a computer simulation will be developed for x and verified using laboratory data from tests y and z, field test data will be obtained from x and used to do y])

Key References:  
(List references cited in the state-of-the art section.)



Adobe Acrobat  
Document

# RTAR Outline

Title:

Executive Summary

Research Need

Applicability to ASHRAE Research Strategic Plan

State-of-the-Art (Background):

Advancement to the State-of-the-Art:

Project Objectives

Expected Approach

Relevance and Benefits to ASHRAE

Applicability to ASHRAE Research Strategic Plan:

Advancement to the State-of-the-Art:

Application of Results:

Anticipated Funding Level and Duration

References

# Examples of actual past reasons for returns

- Linkage to ASHRAE Strategic Research plan missing or not explicit.
- Poor cost estimates
- Recommend other TCs be involved
- Co-funding should be available from outside.
- No reason for ASHRAE to obtain this information because it is available.
- Lack of, or minimal references
- How does the proposed work relate to work by another source?
- Disappointing discussion of state of the art. Hard to believe that we don't already know this!
- No real indication of how the research will add to current understanding.
- Is there evidence that the current methods are causing problems? Can you quantify the impact of any problems? How will this work solve these pbs?
- The TC should do some of this literature search and develop a more focused RTAR and research approach.
- Weak justification and value to ASHRAE.
- Objectives for research are much too vague. Specific details are needed.
- More detail needed in research approach and intermediate steps, probable models to be used.

# At Last - Final comments

- Think about the researcher who will bid on the project.
  - Will they understand what you want from the research?
  - Will they have all the information they need to put together a successful bid?
- Use **common sense** *and* the Research Manual
- Brainstorming, discussion, and gathering information take time – **Plan for it.**
- Remember RTAR deadlines:
  - August 15 (for Fall Meeting),
  - December 15 (for winter Meeting),
  - May 15 (for Summer Meeting)
- And lastly - **You can do it!**