



# Application Form

## System Design Showcase 2015

2016 ANNUAL MEMBERSHIP MEETING & CONFERENCE  
*Experience Matters*

Mail by November 1, 2015 to:

RPA Executive Director  
18927 Hickory Creek Drive,  
Suite 220  
Mokena, IL 60448

### Before you begin read these instructions

- Submit only one project per category and one category per project.
- Fill out this form **completely as instructed**.
- **Do not** submit more than requested and use only this form and any materials requested.
- **Do not** insert application and photos in a binder, presentation folder or photo album.
- Provide the project owner or contact name info as indicated for verification of job (by RPA).

**Deadline for submitting completed application Postmarked November 1, 2015**

### ELIGIBILITY FOR SUBMITTING PROJECTS

- You must not have won for the last two years in the same category.
- The project you submit must be operational at the time it is submitted.
- By submitting this application you give permission to the RPA to reproduce any part of the application, photos or text as promotion of this competition or the radiant industry.

### JUDGING AND SCORING PROCEDURE

Your entry will be judged by the Technical Committee members of the RPA who are your peers in the industry. It will be judged by three main criteria (listed below), each being worth 10 points. The highest point tally through all three criteria will be awarded as the winner of that category.

1. **Presentation:** Completeness of the Showcase application / Project description/ During install & Finished Photos / CAD or neatly drawn schematics / Appearance and adherence to instruction
2. **Technical Merit:** Proper application of equipment / Workmanship
3. **Impression:** Appropriate design / Appearance of installation

A project must obtain a score of 7.0 points or better to qualify for an award. The project with the overall highest score in each category will receive a Trophy. Winners will be announced during the 2016 AHR show.

Step 1	CATEGORY	All projects LARGE and SMALL eligible!
<i>Select only one</i>		
<input type="checkbox"/>	Residential Heating 2000 Sq ft or less	<input type="checkbox"/> Electric
<input type="checkbox"/>	Residential Heating 2001 Sq ft or more	<input type="checkbox"/> Innovation
<input type="checkbox"/>	Commercial Heating	<input type="checkbox"/> Residential Cooling 2000 sq ft or less
<input type="checkbox"/>	Snow/Ice Melting 5000 sq ft or less	<input type="checkbox"/> Residential Cooling 2001 sq ft or more
<input type="checkbox"/>	Snow/Ice Melting 5001 sq ft or more	<input type="checkbox"/> Commercial Cooling

Step 2	SUBMITTED BY	(RPA Contractor Members Only for all categories except Innovation)
Company		
Contact first name		Last name
		Phone
Address		Email address
City	State/Province	Zip
Country		
Project owner's (contact) name and phone number (for use by RPA only)		

**Step 3 PROJECT INFORMATION**

Mark all boxes that apply

Project name	Location (city & state)	Year completed	Sq ft living area
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(Innovation Category Skip to Step 6)

**Structure age**  
 New       \_\_\_\_\_ yrs old

**Space heated/cooled by radiant**  
 \_\_\_\_\_ sq ft      \_\_\_\_\_ levels/stories

**Structure construction**  
 Wood Frame     Steel       Brick/Block     SIP System     Concrete     Other \_\_\_\_\_

**Structure use**  
 Residence     Condo/Apt     Office       Store       Church       School       Hospital  
 Hangar       Garage       Warehouse     Shop       Other \_\_\_\_\_

**Project type**  
 Heating       Cooling       Snow Melting     Other \_\_\_\_\_

**Radiant Panel Location**  
 Floor       Wall       Ceiling       Other \_\_\_\_\_     Radiant Zones # \_\_\_\_\_

**Additional Functions**  
 Fan Coil       Domestic HW     Hot Tub       Pool       Convector     Other \_\_\_\_\_

**Utility**  
 Electric       Natural Gas     Propane       Oil       Solar       Other \_\_\_\_\_

**Heat Source**  
 Electric Boiler     Fossil Fuel Boiler     Water Heat Pump     Air Handler with Hydro Coil     Other \_\_\_\_\_

**Step 4 PANEL DESCRIPTION**

Mark all boxes that apply (*Innovation category skip to Step 6*)

**Floor Panels**  
*Tube or Element*  
 Cable       Film       PEX Tube       Rubber       PE/Metal       PERT  
 Copper       Other

**Panel Construction**  
 Concrete slab on grade       Concrete slab below grade       Sand below concrete slab  
 Gypsum on concrete       Gypsum on wood subfloor       Concrete on wood subfloor  
 Wood sleepers on subfloor       Attached under wood subfloor       Suspended in joist space  
 Aluminum plates       Reflective barrier       Premanufactured floor panel

**Panel Covering**  
 Carpet       Wood       Finished/Unfinished       Tile       Stone       Brick

**Other Panel Details**  
 Tube Size: \_\_\_\_\_ inch      Cable Size: \_\_\_\_\_ watts/ft      Spacing: \_\_\_\_\_ to \_\_\_\_\_ in o/c (range)

**Wall Panels**  
 Cast Iron       Welded Steel       Extruded Aluminum  
 Embedded Tube or Cable       Premanufactured Electric       Other \_\_\_\_\_

**Ceiling Panels**  
 Embedded Tube or Cable       Premanufactured Electric       Premanufactured Hydronic       Heat Transfer Plates

**Convective**  
 Baseboard       Panel Radiator       Fan Coil Units, Chilled Beam       Metal Panel Radiators

**Snow Melt Panels**  
*Snow Melt Construction*  
 Embedded Tube       Embedded Cable       Asphalt       Concrete       Pavers  
*Snow and Ice Melting*  
 Always Clear and Dry       Melt and Runoff       Melt within an hour of Snowfall

**Step 5 CONTROLS**Mark all boxes that apply (*Innovation Category Skip to Step 6*)*Indoor Sensing*

# \_\_\_ air sensing thermostats # \_\_\_ panel sensors # \_\_\_ other \_\_\_\_\_

*Outdoor Sensing*

# \_\_\_ reset heat source high limits # \_\_\_ secondary loop temp controls # \_\_\_ other \_\_\_\_\_

*Panel Temperature Control*# \_\_\_ 3-way mixing valves # \_\_\_ 4-way mixing valves # \_\_\_ injection valves  
# \_\_\_ injection pumps # \_\_\_ heat exchangers # \_\_\_ on-off valves  
# \_\_\_ on-off pumps # \_\_\_ on-off heat sources # \_\_\_ other \_\_\_\_\_*Room Control*# \_\_\_ zone valves # \_\_\_ manifold telestats # \_\_\_ pumping zones  
# \_\_\_ thermostatic valves # \_\_\_ relays (electric system) # \_\_\_ other \_\_\_\_\_*Master Controls*# \_\_\_ Remote Monitoring and Control  
# \_\_\_ PC Based Internet Active Controls**Step 6 ADDITIONAL DESCRIPTION**

Project Description limited to this space, **do not** use additional sheet. **Typed Only.**  
(Innovation Category submit full description of product or application here,  
continue with all additional steps to complete application)

**Best Photo Depicting Mechanical System**

Place a photo in this area only.

**Picture Size: 4" x 6.5"**

**All photos should be submitted electronically, through digital communication.  
JPEG or PDF file formats only. Photos shall be sized at 4" X 6.5" (1200 pixel x 1950 Pixel)**

All photos should be submitted electronically, through digital communication. JPEG or PDF file formats only. Photos shall be sized at 4" X 6.5" (Give Pixel equivalent)

Required photos:

- tube or cable rough in
- finished installation of radiant heated area

*Suggested photos:*

- building exterior
- panel installation
- mechanical room
- controls
- unique features

(maximum 3 – 8 1/2" x 11")

Provide no more than three drawings or schematics (8/12" X 11") depicting the mechanical and or electrical details of the system. These may be hand sketches, professional drawings or computer generated drawings. Drawings must be submitted in an electronic format (Word, PDF etc)

