

**SUMMARY: HOUSTON DESIGN/BUILD WORKSHOP
FOR PASSIVE SOLAR HOMES**

October 1981

MASTER

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SSEC/SP--41290
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SUMMARY
HOUSTON DESIGN/BUILD WORKSHOP
FOR PASSIVE SOLAR HOMES

see
page 28
Rockville

Calulon Corporation

October 1981

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WORKSHOP SUMMARY

HOUSTON DESIGN/BUILD WORKSHOP FOR PASSIVE SOLAR HOMES

INTRODUCTION

The Southern Solar Energy Center (SSEC), in order to provide technical guidance on passive solar design principles for building professionals, held a one-day Design/Build Workshop in Houston, Texas, on August 7, 1981. One of the highlights of the workshop was a tour of the SSEC Houston House passive solar home, which had been designed and constructed under the joint auspices of SSEC, the Houston-based architectural firm Environment Associates, Doyle Stuckey Homes builders, the National Association of Homebuilders, and a team of prominent local advisors. A major purpose of this workshop was to provide "hands-on" training and education to designers and builders in the use of passive solar technology in new, single-family dwellings. The workshop addressed practical passive design features, economics, benefits, and cost incentives of passive solar energy uses.

OBSERVATIONS

As was true at the Louisville Workshop (May 15, 1981) the participants were most inquisitive about passive solar heating and cooling technology and eager to learn more about applications in home design and construction. At the Houston Workshop, many attendees sought detailed and specific construction and design information.

The majority of attendees found the workshop highly informative. A few expressed the view that more technical detail and state-of-the-art information would have enhanced their participation. Comments from several individuals indicated an interest in more information about costs, marketing, and passive cooling technology. As far as program content was concerned, it was suggested that future workshops make greater use of visuals, especially to display a variety of construction alternatives. There were no logistical or programmatic problems during this workshop.

EVALUATION

A total of 50 persons* participated in the Houston Workshop. Based on observations during the workshop and an analysis of evaluation forms (Exhibit B) completed at the end of the workshop by 20 attendees, the following conclusions may be drawn:

- o PROGRAM -- The program content was generally considered to be very good, although some felt there was room for improvement. Comments included requests for more information on passive cooling, the use of more examples, more cost information, and tighter speech organization. There was unanimous agreement that the topics covered

*Including speakers and CALCULON support staff.

were both relevant and sufficiently varied to interest a broad audience. The Houston House tour captured the enthusiastic interest of all attendees. The timing of the workshop was acceptable.

- o SPEAKERS -- All speakers received good to excellent ratings by nearly all attendees. There were a few complaints that some talks were not sufficiently well organized and were, in some cases, too general. The visual presentations were praised, and there were a number of suggestions that more visuals be used, particularly to illustrate construction variations.
- o SITE -- Nearly all of the participants found that the location was convenient. Those who reported on lodgings (Adam's Mark) stated that they were excellent. The meeting room was comfortable. The luncheon and refreshments were rated very good.
- o COMMUNICATION MATERIALS -- The attendees rated the advance material in the good to excellent range. They rated the meeting material kit as excellent. One participant suggested the inclusion of more "case history" material, and another recommended greater emphasis on passive solar cooling techniques. Building With Passive Solar, developed by the Southern Solar Energy Center, received considerable praise.
- o PROFESSIONAL IDENTIFICATION OF ATTENDEES -- The Houston Workshop was attended exclusively by architects and builders, with builders in the majority. Local governments were invited but did not attend. It was observable that some of the attendees were highly knowledgeable about passive solar technology. This group generally wanted greater technical detail to be included in the program.

**SUMMARY AND ANALYSIS
OF
WORKSHOP EVALUATION FORMS**

Total Responses: 20

In Attendance: 50

SCORE: 4 - Excellent 3 = Good 2 = Fair 1 = Poor

<u>PROGRAM</u>	4.0	3.5	3.0	2.5	2.0	1.0	YES	NO	TOTAL RESP.
1. Content, Overall	2	0	11	0	4	0	1	0	18
2. Topics, Relevancy	0	0	0	0	0	0	20	0	20
3. Program Varied	0	0	0	0	0	0	20	0	20
4. HomeTour Value	6	0	5	0	2	0	7	0	20
5. Timing Good	0	0	1	0	0	0	18	1	20
<u>WORKSHOP SITE</u>									
1. Location	6	0	10	0	2	0	1	0	19
2. Lodging	7	0	0	0	0	0	0	0	7
3. Meeting Room	14	0	6	0	0	0	0	0	20
4. Lunch/Refreshment	11	0	6	0	2	1	0	0	20
<u>COMMUNICATION</u>									
1. Advance Materials	3	0	11	0	3	1	0	0	18
2. Meeting Materials	12	0	6	1	1	0	0	0	20
<u>SPEAKERS</u>									
Naismith									
1. Knowledgeable	8	0	10	0	1	1	0	0	20
2. Presentation	6	0	11	0	2	1	0	0	20
Prince/Williams									
1. Knowledgeable	8	0	11	0	1	0	0	0	20
2. Presentation	8	0	9	0	3	0	0	0	20
Reed									
1. Knowledgeable	4	0	12	0	2	1	0	0	19
2. Presentation	4	0	13	0	2	1	0	0	20



WORKSHOP EVALUATION

As a participant in the Design/Build Workshop for Passive Solar Homes, you are the best judge of its success. We would appreciate your taking a few minutes to complete this Workshop Evaluation Form. Your comments (good and bad) will help to plan future workshops. Thank you.

SCORING

Please use this numerical scoring guide unless otherwise indicated (i.e., yes or no).

4=Excellent 3=Good 2=Fair 1=Poor

PROGRAM

- | | |
|--|------------------------|
| 1. Content | <u>yes</u> |
| 2. Were the topics relevant? | <u>yes</u> (yes or no) |
| 3. Was the program varied enough? | <u>yes</u> (yes or no) |
| 4. Was the solar home of interest and valuable in the overall scope of the Workshop? | <u>yes</u> |
| 5. Was the timing of the Workshop (month/season) good? | <u>yes</u> (yes or no) |

SPEAKERS

	<u>Naismith</u>	<u>Prince</u>	<u>Reed</u>
1. How well did each speaker present knowledge of his topic area?	<u>4</u>	<u>4</u>	<u>3</u>
2. How well did he present his information?	<u>3</u>	<u>4</u>	<u>3</u>

WORKSHOP SITE

- | | |
|-----------------------------|----------|
| 1. Location (convenience). | <u>3</u> |
| 2. Lodging (if applicable). | <u>4</u> |
| 3. Meeting room set-up. | <u>4</u> |
| 4. Lunch and breaks. | <u>4</u> |

COMMUNICATION

- | | |
|----------------------------------|----------|
| 1. Advance promotional material. | <u>3</u> |
| 2. Meeting materials kit. | <u>4</u> |

OBSERVATIONS

In your opinion, what were the high and low points of the Workshop?

LAST HOUR WAS THE HIGH POINT, ALOT TOOK PLACE
AND VERY INFORMATIVE.

Suggestions and comments: (use back if necessary)

NONE



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Design/Build Workshop
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SCORING

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PROGRAM

- | | | |
|--|------------|-------------|
| 1. Content | <u>3</u> | |
| 2. Were the topics relevant? | <u>yes</u> | (yes or no) |
| 3. Was the program varied enough? | <u>yes</u> | (yes or no) |
| 4. Was the solar home of interest and valuable in the overall scope of the Workshop? | <u>2</u> | |
| 5. Was the timing of the Workshop (month/season) good? | <u>yes</u> | (yes or no) |

SPEAKERS

- | | | | |
|---|-----------------|---------------|-------------|
| 1. How well did each speaker present knowledge of his topic area? | <u>Naismith</u> | <u>Prince</u> | <u>Reed</u> |
| | <u>3</u> | <u>3</u> | <u>3</u> |
| 2. How well did he present his information? | <u>3</u> | <u>3</u> | <u>3</u> |

WORKSHOP SITE

- | | |
|-----------------------------|----------|
| 1. Location (convenience). | <u>4</u> |
| 2. Lodging (if applicable). | <u>4</u> |
| 3. Meeting room set-up. | <u>4</u> |
| 4. Lunch and breaks. | <u>4</u> |

COMMUNICATION

- | | |
|----------------------------------|----------|
| 1. Advance promotional material. | <u>1</u> |
| 2. Meeting materials kit. | <u>4</u> |

OBSERVATIONS

In your opinion, what were the high and low points of the Workshop?

Suggestions and comments: (use back if necessary)



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Design/Build Workshop
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SCORING

Please use this numerical scoring guide unless otherwise indicated (i.e., yes or no).

4=Excellent 3=Good 2=Fair 1=Poor

PROGRAM

- | | | |
|--|----------|-------------|
| 1. Content | <u>3</u> | |
| 2. Were the topics relevant? | <u>Y</u> | (yes or no) |
| 3. Was the program varied enough? | <u>Y</u> | (yes or no) |
| 4. Was the solar home of interest and valuable in the overall scope of the Workshop? | <u>Y</u> | |
| 5. Was the timing of the Workshop (month/season) good? | <u>Y</u> | (yes or no) |

SPEAKERS

- | | | | |
|---|-----------------|---------------|-------------|
| 1. How well did each speaker present knowledge of his topic area? | <u>Naismith</u> | <u>Prince</u> | <u>Reed</u> |
| | <u>4</u> | <u>4</u> | <u>3</u> |
| 2. How well did he present his information? | <u>4</u> | <u>4</u> | <u>3</u> |

WORKSHOP SITE

- | | |
|-----------------------------|----------|
| 1. Location (convenience). | <u>4</u> |
| 2. Lodging (if applicable). | <u>4</u> |
| 3. Meeting room set-up. | <u>4</u> |
| 4. Lunch and breaks. | <u>4</u> |

COMMUNICATION

- | | |
|----------------------------------|----------|
| 1. Advance promotional material. | <u>3</u> |
| 2. Meeting materials kit. | <u>4</u> |

OBSERVATIONS

In your opinion, what were the high and low points of the Workshop?

Good visuals, Tour great.

One guy monopolizing questions

Suggestions and comments: (use back if necessary)



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SCORING

Please use this numerical scoring guide unless otherwise indicated (i.e., yes or no).

4=Excellent 3=Good 2=Fair 1=Poor

PROGRAM

- | | | |
|--|------------|--------------|
| 1. Content | <u>3</u> | |
| 2. Were the topics relevant? | <u>3</u> | (yes) or no) |
| 3. Was the program varied enough? | <u>2</u> | (yes) or no) |
| 4. Was the solar home of interest and valuable in the overall scope of the Workshop? | <u>4</u> | |
| 5. Was the timing of the Workshop (month/season) good? | <u> </u> | (yes) or no) |

SPEAKERS

- | | | | |
|---|-----------------|---------------|-------------|
| 1. How well did each speaker present knowledge of his topic area? | <u>Naismith</u> | <u>Prince</u> | <u>Reed</u> |
| 2. How well did he present his information? | <u>4</u> | <u>4</u> | <u>3</u> |

WORKSHOP SITE

- | | |
|-----------------------------|----------|
| 1. Location (convenience). | <u>2</u> |
| 2. Lodging (if applicable). | <u>3</u> |
| 3. Meeting room set-up. | <u>3</u> |
| 4. Lunch and breaks. | <u>4</u> |

COMMUNICATION

- | | |
|----------------------------------|----------|
| 1. Advance promotional material. | <u>3</u> |
| 2. Meeting materials kit. | <u>4</u> |

OBSERVATIONS

In your opinion, what were the high and low points of the Workshop?

Suggestions and comments: (use back if necessary)

CONTINUE ON PERIODIC BASIS TO KEEP UP WITH ADVANCEMENTS
MORE BUILT EXAMPLES WOULD BE HELPFUL



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PROGRAM

- | | |
|--|------------------------|
| 1. Content | <u>2</u> |
| 2. Were the topics relevant? | <u>yes</u> (yes or no) |
| 3. Was the program varied enough? | <u>no</u> (yes or no) |
| 4. Was the solar home of interest and valuable in the overall scope of the Workshop? | <u>3</u> |
| 5. Was the timing of the Workshop (month/season) good? | <u>yes</u> (yes or no) |

SPEAKERS

- | | | | |
|---|-----------------|---------------|-------------|
| 1. How well did each speaker present knowledge of his topic area? | <u>Naismith</u> | <u>Prince</u> | <u>Reed</u> |
| | <u>1</u> | <u>3</u> | <u>1</u> |
| 2. How well did he present his information? | <u>1</u> | <u>2</u> | <u>1</u> |

WORKSHOP SITE

- | | |
|-----------------------------|----------|
| 1. Location (convenience). | <u>3</u> |
| 2. Lodging (if applicable). | <u>1</u> |
| 3. Meeting room set-up. | <u>3</u> |
| 4. Lunch and breaks. | <u>3</u> |

COMMUNICATION

- | | |
|----------------------------------|--------------|
| 1. Advance promotional material. | <u>2</u> |
| 2. Meeting materials kit. | <u>2 1/2</u> |

OBSERVATIONS

In your opinion, what were the high and low points of the Workshop?
no high pts. Avg. to low - Introduction
to noon (very low - could have been presented
in 15 minutes).

Suggestions and comments: (use back if necessary)
Better speakers - Architects O.K.
Potential is there but needs much more polish
& constructive information.



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SCORING

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PROGRAM

- | | |
|--|------------------------|
| 1. Content | |
| 2. Were the topics relevant? | <u>YES</u> (yes or no) |
| 3. Was the program varied enough? | <u>YES</u> (yes or no) |
| 4. Was the solar home of interest and valuable in the overall scope of the Workshop? | <u>3</u> |
| 5. Was the timing of the Workshop (month/season) good? | <u>YES</u> (yes or no) |

SPEAKERS

- | | | | |
|---|-----------------|---------------|-------------|
| 1. How well did each speaker present knowledge of his topic area? | <u>Naismith</u> | <u>Prince</u> | <u>Reed</u> |
| | <u>3</u> | <u>3</u> | <u>3</u> |
| 2. How well did he present his information? | <u>3</u> | <u>3</u> | <u>3</u> |

WORKSHOP SITE

- | | |
|-----------------------------|----------|
| 1. Location (convenience). | <u>3</u> |
| 2. Lodging (if applicable). | |
| 3. Meeting room set-up. | <u>4</u> |
| 4. Lunch and breaks. | <u>4</u> |

COMMUNICATION

- | | |
|----------------------------------|----------|
| 1. Advance promotional material. | <u>3</u> |
| 2. Meeting materials kit. | <u>4</u> |

OBSERVATIONS

In your opinion, what were the high and low points of the Workshop?

Suggestions and comments: (use back if necessary)

could have been a little better organized by having more positive answers



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PROGRAM

- | | |
|--|---|
| 1. Content <i>SHOULD HAVE KEPT TO OUTLINE</i> | <u>2</u> |
| 2. Were the topics relevant? | <u>YES</u> (yes or no) <i>But unorganized</i> |
| 3. Was the program varied enough? | <u>YES</u> (yes or no) <i>"</i> |
| 4. Was the solar home of interest and valuable in the overall scope of the Workshop? | <u>2</u> |
| 5. Was the timing of the Workshop (month/season) good? | <u> </u> <i>(yes or no)</i> |

SPEAKERS

- | | | | | |
|---|-----------------|---------------|-------------|----------------|
| 1. How well did each speaker present knowledge of his topic area? | <u>Naismith</u> | <u>Prince</u> | <u>Reed</u> | <u>William</u> |
| | <u>2</u> | <u>3</u> | <u>2</u> | <u>4</u> |
| 2. How well did he present his information? | <u>2</u> | <u>2</u> | <u>3</u> | <u>1</u> |

WORKSHOP SITE

- | | |
|-----------------------------|-------------|
| 1. Location (convenience). | <u>3</u> |
| 2. Lodging (if applicable). | <u> </u> |
| 3. Meeting room set-up. | <u>3</u> |
| 4. Lunch and breaks. | <u>3</u> |

COMMUNICATION

- | | |
|--|----------|
| 1. Advance promotional material. <i>Deceptive - I expected a much more professional conference</i> | |
| 2. Meeting materials kit. <i>with better organization.</i> | <u>3</u> |

OBSERVATIONS

In your opinion, what were the high and low points of the Workshop?

low points only: very disorganized, should have studied 5-6 example-homes through slides

Suggestions and comments: (use back if necessary)

each speaker should have presented an outline of major topic points - talk to any college professor for lessons

I was very disappointed in overall presentation, organization and level of competence demonstrated.



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SCORING

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PROGRAM

- | | | |
|--|----------|-------------|
| 1. Content | <u>3</u> | |
| 2. Were the topics relevant? | <u>Y</u> | (yes or no) |
| 3. Was the program varied enough? | <u>Y</u> | (yes or no) |
| 4. Was the solar home of interest and valuable in the overall scope of the Workshop? | <u>3</u> | |
| 5. Was the timing of the Workshop (month/season) good? | <u>X</u> | (yes or no) |

SPEAKERS

- | | | | |
|---|-----------------|---------------|-------------|
| 1. How well did each speaker present knowledge of his topic area? | <u>Naismith</u> | <u>Prince</u> | <u>Reed</u> |
| | <u>4</u> | <u>3</u> | <u>3</u> |
| 2. How well did he present his information? | <u>4</u> | <u>3</u> | <u>3</u> |

WORKSHOP SITE

- | | |
|-----------------------------|------------|
| 1. Location (convenience). | <u>3</u> |
| 2. Lodging (if applicable). | <u>N/A</u> |
| 3. Meeting room set-up. | <u>4</u> |
| 4. Lunch and breaks. | <u>3</u> |

COMMUNICATION

- | | |
|----------------------------------|----------|
| 1. Advance promotional material. | <u>3</u> |
| 2. Meeting materials kit. | <u>4</u> |

OBSERVATIONS

In your opinion, what were the high and low points of the Workshop?

work book looks very good although have not yet read it.
Pretty good ~~thru~~ program. Better than March
conference.

Suggestions and comments: (use back if necessary)

would like to have heard and seen more on
marketing and advertising with actual examples.
I attended March conference so that may be why
i'm asking for that. But if you can't sell them
they ain't any good.



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PROGRAM

- | | |
|--|------------------------|
| 1. Content | <u>3</u> |
| 2. Were the topics relevant? | <u>Yes</u> (yes or no) |
| 3. Was the program varied enough? | <u>Yes</u> (yes or no) |
| 4. Was the solar home of interest and valuable in the overall scope of the Workshop? | <u>3</u> |
| 5. Was the timing of the Workshop (month/season) good? | <u>Yes</u> (yes or no) |

SPEAKERS

- | | | | |
|---|-----------------|---------------|-------------|
| 1. How well did each speaker present knowledge of his topic area? | <u>Naismith</u> | <u>Prince</u> | <u>Reed</u> |
| | <u>3</u> | <u>3</u> | <u>3</u> |
| 2. How well did he present his information? | <u>3</u> | <u>3</u> | <u>3</u> |

WORKSHOP SITE

- | | |
|-----------------------------|----------|
| 1. Location (convenience). | <u>3</u> |
| 2. Lodging (if applicable). | <u>3</u> |
| 3. Meeting room set-up. | <u>3</u> |
| 4. Lunch and breaks. | <u>2</u> |

COMMUNICATION

- | | |
|----------------------------------|----------|
| 1. Advance promotional material. | <u>3</u> |
| 2. Meeting materials kit. | <u>3</u> |

OBSERVATIONS

In your opinion, what were the high and low points of the Workshop?

Suggestions and comments: (use back if necessary)

Good program, presentation



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SCORING

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4=Excellent 3=Good 2=Fair 1=Poor

PROGRAM

- | | |
|--|------------------------|
| 1. Content | <u>3</u> |
| 2. Were the topics relevant? | <u>YES</u> (yes or no) |
| 3. Was the program varied enough? | <u>YES</u> (yes or no) |
| 4. Was the solar home of interest and valuable in the overall scope of the Workshop? | <u>YES</u> |
| 5. Was the timing of the Workshop (month/season) good? | <u>YES</u> (yes or no) |

SPEAKERS

- | | | | |
|---|-----------------|---------------|-------------|
| 1. How well did each speaker present knowledge of his topic area? | <u>Naismith</u> | <u>Prince</u> | <u>Reed</u> |
| | <u>3</u> | <u>3</u> | <u>3</u> |
| 2. How well did he present his information? | <u>3</u> | <u>3</u> | <u>3</u> |

WORKSHOP SITE

- | | |
|-----------------------------|----------|
| 1. Location (convenience). | <u>4</u> |
| 2. Lodging (if applicable). | <u>-</u> |
| 3. Meeting room set-up. | <u>3</u> |
| 4. Lunch and breaks. | <u>2</u> |

COMMUNICATION

- | | |
|----------------------------------|----------|
| 1. Advance promotional material. | <u>0</u> |
| 2. Meeting materials kit. | <u>3</u> |

OBSERVATIONS

In your opinion, what were the high and low points of the Workshop?

FIELD TRIPS
SLIDES

Suggestions and comments: (use back if necessary)

NEED MORE COST INFORMATION



**NAHB/SSEC
Design/Build Workshop
for Passive Solar Homes**

WORKSHOP EVALUATION

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SCORING

Please use this numerical scoring guide unless otherwise indicated (i.e., yes or no).

4=Excellent 3=Good 2=Fair 1=Poor

PROGRAM

- | | |
|--|------------------------|
| 1. Content | <u>3</u> |
| 2. Were the topics relevant? | <u>yes</u> (yes or no) |
| 3. Was the program varied enough? | <u>yes</u> (yes or no) |
| 4. Was the solar home of interest and valuable in the overall scope of the Workshop? | <u>3</u> |
| 5. Was the timing of the Workshop (month/season) good? | <u>yes</u> (yes or no) |

SPEAKERS

- | | | | |
|---|-----------------|---------------|-------------|
| 1. How well did each speaker present knowledge of his topic area? | <u>Naismith</u> | <u>Prince</u> | <u>Reed</u> |
| | <u>4</u> | <u>4</u> | <u>4</u> |
| 2. How well did he present his information? | <u>4</u> | <u>4</u> | <u>4</u> |

WORKSHOP SITE

- | | |
|-----------------------------|----------|
| 1. Location (convenience). | <u>4</u> |
| 2. Lodging (if applicable). | <u>-</u> |
| 3. Meeting room set-up. | <u>4</u> |
| 4. Lunch and breaks. | <u>4</u> |

COMMUNICATION

- | | |
|----------------------------------|----------|
| 1. Advance promotional material. | <u>4</u> |
| 2. Meeting materials kit. | <u>4</u> |

OBSERVATIONS

In your opinion, what were the high and low points of the Workshop?

low point - too much discussion on solability and cost effectiveness which is a relative subject that promotes waste of valuable time that could be used for state of the art technology and explanation. High point - kept my interest

Suggestions and comments: (use back if necessary)

Spend more time on technology whether new or old which promotes energy efficiency instead of cost politics and philosophy. Despite my complaints I really enjoyed it. Thanks alot. Keep it going.



**NAHB/SSEC
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SCORING

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4=Excellent 3=Good 2=Fair 1=Poor

PROGRAM

- | | | |
|--|---------------|-------------|
| 1. Content | <u>3</u> | |
| 2. Were the topics relevant? | <u>yes</u> | (yes or no) |
| 3. Was the program varied enough? | <u> </u> | (yes or no) |
| 4. Was the solar home of interest and valuable in the overall scope of the Workshop? | <u>yes</u> | |
| 5. Was the timing of the Workshop (month/season) good? | <u>yes</u> | (yes or no) |

SPEAKERS

- | | | | |
|---|-----------------|---------------|-------------|
| 1. How well did each speaker present knowledge of his topic area? | <u>Naismith</u> | <u>Prince</u> | <u>Reed</u> |
| 2. How well did he present his information? | <u>3</u> | <u>3</u> | <u>4</u> |
| | <u>3</u> | <u>3</u> | <u>4</u> |

WORKSHOP SITE

- | | |
|-----------------------------|---------------|
| 1. Location (convenience). | <u>yes</u> |
| 2. Lodging (if applicable). | <u> </u> |
| 3. Meeting room set-up. | <u>4</u> |
| 4. Lunch and breaks. | <u>1</u> |

COMMUNICATION

- | | |
|----------------------------------|----------|
| 1. Advance promotional material. | <u>3</u> |
| 2. Meeting materials kit. | <u>3</u> |

OBSERVATIONS

In your opinion, what were the high and low points of the Workshop?

Suggestions and comments: (use back if necessary)



**NAHB/SSEC
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SCORING

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4=Excellent 3=Good 2=Fair 1=Poor

PROGRAM

- | | |
|--|------------------------|
| 1. Content | <u>3</u> |
| 2. Were the topics relevant? | <u>YES</u> (yes or no) |
| 3. Was the program varied enough? | <u>NO</u> (yes or no) |
| 4. Was the solar home of interest and valuable in the overall scope of the Workshop? | <u>4</u> |
| 5. Was the timing of the Workshop (month/season) good? | <u>3</u> (yes or no) |

SPEAKERS

- | | | | |
|---|-----------------|---------------|-------------|
| 1. How well did each speaker present knowledge of his topic area? | <u>Naismith</u> | <u>Prince</u> | <u>Reed</u> |
| | <u>3</u> | <u>3</u> | <u>3</u> |
| 2. How well did he present his information? | <u>3</u> | <u>3</u> | <u>2</u> |

WORKSHOP SITE

- | | |
|-----------------------------|----------|
| 1. Location (convenience). | <u>3</u> |
| 2. Lodging (if applicable). | <u>4</u> |
| 3. Meeting room set-up. | <u>4</u> |
| 4. Lunch and breaks. | <u>4</u> |

COMMUNICATION

- | | |
|----------------------------------|----------|
| 1. Advance promotional material. | <u>4</u> |
| 2. Meeting materials kit. | <u>4</u> |

OBSERVATIONS

In your opinion, what were the high and low points of the Workshop?

INFORMATION ON THE ~~HOME~~ HOME (MODEL) RELATED MANY
IDEAL GOOD FOR USE IN THE NORTH, THAT DOES NOT RELATE WELL
WITH SOUTHERN BUILDING

Suggestions and comments: (use back if necessary)



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SCORING

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PROGRAM

- | | | |
|--|-------------|-------------|
| 1. Content | <u>4</u> | |
| 2. Were the topics relevant? | <u>4</u> | (yes or no) |
| 3. Was the program varied enough? | <u> </u> | (yes or no) |
| 4. Was the solar home of interest and valuable in the overall scope of the Workshop? | <u>4</u> | |
| 5. Was the timing of the Workshop (month/season) good? | <u>NO</u> | (yes or no) |

SPEAKERS

- | | | | |
|---|-----------------|---------------|-------------|
| 1. How well did each speaker present knowledge of his topic area? | <u>Naismith</u> | <u>Prince</u> | <u>Reed</u> |
| | <u>3</u> | <u>4</u> | <u>3</u> |
| 2. How well did he present his information? | <u>3</u> | <u>4</u> | <u>3</u> |

WORKSHOP SITE

- | | |
|-----------------------------|----------|
| 1. Location (convenience). | <u>3</u> |
| 2. Lodging (if applicable). | <u>4</u> |
| 3. Meeting room set-up. | <u>4</u> |
| 4. Lunch and breaks. | <u>3</u> |

COMMUNICATION

- | | |
|----------------------------------|----------|
| 1. Advance promotional material. | <u>3</u> |
| 2. Meeting materials kit. | <u>4</u> |

OBSERVATIONS

In your opinion, what were the high and low points of the Workshop?

too much weight to solar heating
not enough to cooling/ventilating

Suggestions and comments: (use back if necessary)

The speaker's from Washington D.C. was
not very well informed as to our
local building techniques.



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SCORING

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PROGRAM

- | | | |
|--|-------------|-------------|
| 1. Content | <u>2</u> | |
| 2. Were the topics relevant? | <u> </u> | (yes or no) |
| 3. Was the program varied enough? | <u> </u> | (yes or no) |
| 4. Was the solar home of interest and valuable in the overall scope of the Workshop? | <u>4</u> | |
| 5. Was the timing of the Workshop (month/season) good? | <u> </u> | (yes or no) |

SPEAKERS

- | | | | |
|---|-----------------|---------------|-------------|
| 1. How well did each speaker present knowledge of his topic area? | <u>Naismith</u> | <u>Prince</u> | <u>Reed</u> |
| | <u>3</u> | <u>3</u> | <u>N/A</u> |
| 2. How well did he present his information? | <u>2</u> | <u>3</u> | <u>3</u> |

WORKSHOP SITE

- | | |
|-----------------------------|------------|
| 1. Location (convenience). | <u>4</u> |
| 2. Lodging (if applicable). | <u>N/A</u> |
| 3. Meeting room set-up. | <u>4</u> |
| 4. Lunch and breaks. | <u>4</u> |

COMMUNICATION

- | | |
|----------------------------------|----------|
| 1. Advance promotional material. | <u>3</u> |
| 2. Meeting materials kit. | <u>3</u> |

OBSERVATIONS

In your opinion, what were the high and low points of the Workshop?

Generalities were focused on rather than specifics, much seemed to be repetitive of that available in many consumer publications

Suggestions and comments: (use back if necessary)



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SCORING

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PROGRAM

- | | |
|--|------------------------|
| 1. Content | <u>4</u> |
| 2. Were the topics relevant? | <u>yes</u> (yes or no) |
| 3. Was the program varied enough? | <u>yes</u> (yes or no) |
| 4. Was the solar home of interest and valuable in the overall scope of the Workshop? | <u>4</u> |
| 5. Was the timing of the Workshop (month/season) good? | <u>yes</u> (yes or no) |

SPEAKERS

- | | | | |
|---|-----------------|---------------|-------------|
| 1. How well did each speaker present knowledge of his topic area? | <u>Naismith</u> | <u>Prince</u> | <u>Reed</u> |
| | <u>4</u> | <u>4</u> | <u>4</u> |
| 2. How well did he present his information? | <u>4</u> | <u>4</u> | <u>4</u> |

WORKSHOP SITE

- | | |
|-----------------------------|----------|
| 1. Location (convenience). | <u>4</u> |
| 2. Lodging (if applicable). | <u>4</u> |
| 3. Meeting room set-up. | <u>4</u> |
| 4. Lunch and breaks. | <u>4</u> |

COMMUNICATION

- | | |
|----------------------------------|----------|
| 1. Advance promotional material. | <u>4</u> |
| 2. Meeting materials kit. | <u>4</u> |

OBSERVATIONS

In your opinion, what were the high and low points of the Workshop?

EXCELLENT THERE WERE NO LOW PTS

Suggestions and comments: (use back if necessary)

Excellent!



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SCORING

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PROGRAM

- | | | |
|--|----------|-------------|
| 1. Content | <u>3</u> | |
| 2. Were the topics relevant? | <u>Y</u> | (yes or no) |
| 3. Was the program varied enough? | <u>Y</u> | (yes or no) |
| 4. Was the solar home of interest and valuable in the overall scope of the Workshop? | <u>Y</u> | |
| 5. Was the timing of the Workshop (month/season) good? BAD DAY - Friday | <u>Y</u> | (yes or no) |

SPEAKERS

- | | | | |
|---|-----------------|---------------|-------------|
| 1. How well did each speaker present knowledge of his topic area? | <u>Naismith</u> | <u>Prince</u> | <u>Reed</u> |
| 2. How well did he present his information? | <u>4</u> | <u>3</u> | <u>3</u> |

WORKSHOP SITE

- | | |
|-----------------------------|-----------|
| 1. Location (convenience). | <u>2</u> |
| 2. Lodging (if applicable). | <u>NA</u> |
| 3. Meeting room set-up. | <u>3</u> |
| 4. Lunch and breaks. | <u>3</u> |

COMMUNICATION

- | | |
|----------------------------------|----------|
| 1. Advance promotional material. | <u>3</u> |
| 2. Meeting materials kit. | <u>3</u> |

OBSERVATIONS

In your opinion, what were the high and low points of the Workshop?

ON SITE APPLICATION

Suggestions and comments: (use back if necessary)

NOT ENOUGH TIME TO ASK QUESTIONS AT SOLAR HOME SITE.



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SCORING

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4=Excellent 3=Good 2=Fair 1=Poor

PROGRAM

- | | |
|--|------------------------|
| 1. Content | <u>2</u> |
| 2. Were the topics relevant? | <u>YES</u> (yes or no) |
| 3. Was the program varied enough? | <u>YES</u> (yes or no) |
| 4. Was the solar home of interest and valuable in the overall scope of the Workshop? | <u>YES</u> |
| 5. Was the timing of the Workshop (month/season) good? | <u>YES</u> (yes or no) |

SPEAKERS

- | | | | |
|---|-----------------|---------------|-------------|
| 1. How well did each speaker present knowledge of his topic area? | <u>Naismith</u> | <u>Prince</u> | <u>Reed</u> |
| | <u>3</u> | <u>3</u> | <u>3</u> |
| 2. How well did he present his information? | <u>3</u> | <u>3</u> | <u>3</u> |

WORKSHOP SITE

- | | |
|-----------------------------|----------|
| 1. Location (convenience). | <u>3</u> |
| 2. Lodging (if applicable). | <u>4</u> |
| 3. Meeting room set-up. | <u>4</u> |
| 4. Lunch and breaks. | <u>4</u> |

COMMUNICATION

- | | |
|----------------------------------|----------|
| 1. Advance promotional material. | <u>3</u> |
| 2. Meeting materials kit. | <u>4</u> |

OBSERVATIONS

In your opinion, what were the high and low points of the Workshop?

BOB REED, BOB NAISMITH

Suggestions and comments: (use back if necessary)

MORE DETAILED INFORMATION



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PROGRAM

- | | |
|--|------------------------|
| 1. Content | |
| 2. Were the topics relevant? | <u>Yes</u> (yes or no) |
| 3. Was the program varied enough? | <u>Yes</u> (yes or no) |
| 4. Was the solar home of interest and valuable in the overall scope of the Workshop? | <u>Yes</u> |
| 5. Was the timing of the Workshop (month/season) good? | <u>Yes</u> (yes or no) |

SPEAKERS

- | | | | |
|---|-----------------|---------------|-------------|
| 1. How well did each speaker present knowledge of his topic area? | <u>Naismith</u> | <u>Prince</u> | <u>Reed</u> |
| | <u>Good</u> | <u>Fair</u> | <u>Fair</u> |
| 2. How well did he present his information? | <u>Good</u> | <u>Fair</u> | <u>Good</u> |

WORKSHOP SITE

- | | |
|-----------------------------|-------------|
| 1. Location (convenience). | <u>good</u> |
| 2. Lodging (if applicable). | <u>-</u> |
| 3. Meeting room set-up. | <u>good</u> |
| 4. Lunch and breaks. | <u>good</u> |

COMMUNICATION

- | | |
|----------------------------------|-----------|
| 1. Advance promotional material. | <u>OK</u> |
| 2. Meeting materials kit. | <u>OK</u> |

OBSERVATIONS

In your opinion, what were the high and low points of the Workshop?

Hot water Pre heat

Suggestions and comments: (use back if necessary)

More documentation for comments

Agenda – August 7, 1981

- | | | | |
|----------|--|---------|--|
| 7:30 am | Registration | 2:45 pm | Building for Passive Solar Homes:
The Builder's Viewpoint
Speaker: Bob Reed
Working with the architect, construction problems and marketing approaches. |
| 8:00 am | Passive Solar: Building for the Future
Speaker: Jim Borden
A state-of-the-art overview of passive solar energy and the building community. | 3:15 pm | Coffee Break |
| 8:30 am | Passive Solar Concepts: Conservation and Insulation
Speaker: Bob Naismith
Techniques to reduce energy losses to get the most benefit out of passive solar applications. | 3:30 pm | Passive Solar: Making It Work for You
Panel Discussion
An audience participation session designed to answer your questions and provide a free-form discussion of potential problems and benefits. |
| 9:30 am | Coffee Break | 4:30 pm | Adjournment |
| 9:45 am | Passive Solar Concepts: Cooling and Heating
Speaker: Bob Naismith
Step-by-step guidance to using simple techniques for designing and constructing passive solar structures. | | |
| 11:30 am | Group A* — Luncheon
Group B — Houston Solar House Tour | | |
| 12:45 pm | Group B* — Luncheon
Group A — Houston Solar House Tour | | |
| 2:00 pm | Designing for Houston Passive Solar:
The Architect's Perspective
Speaker: David Prince
Selecting the appropriate design approach, problem solving, compromising, and architect/builder cooperation. | | |



**NAHB/SSEC
Design/Build Workshop
for Passive Solar Homes**

LIST OF PARTICIPANTS

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Appendix E

SPEAKER AND STAFF LIST
HOUSTON DESIGN/BUILD WORKSHOP FOR PASSIVE SOLAR

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→ Rockville, Maryland 20850
→ (301) 258-5300

**PASSIVE SOLAR HOMES
DESIGN/BUILD
WORKSHOP**

August 7, 1981

Adams Mark Hotel

\$55.00 Fee Includes:

- Passive Solar Home Tour
- Design & Construction Information
- Solar Cooling Features
- Luncheon
- "Building with Passive Solar" guide book

Reservations Required

**Call: Cynthia Ramer
(713) 468-8247 (Weekdays)**

**Sponsored by:
Southern Solar Energy Center & N.A.H.B.**

HOUSTON CHRONICLE - August 2, 1981

PASSIVE SOLAR HOMES

Design/Build Workshop



Houston, Texas
August 7, 1981
Adam's Mark Hotel

- Energy-saving home tour...
- Solar cooling features...
- Design and construction information...

sponsored by
National Association of Home Builders
Southern Solar Energy Center
(operated for U.S. Department of Energy)

Soaring energy costs have triggered profound changes in consumer preferences and buying patterns. Witness the disastrous performance of the U. S. automobile industry.

The message to business is clear:
**IMPROVE THE ENERGY EFFICIENCY
OF YOUR PRODUCTS, OR BE LEFT
BEHIND.**

As building business professionals, you are involved in producing the biggest energy-consuming product most Americans buy—their homes. Today it is good business to make that product as energy efficient as possible.

Including passive solar techniques in the homes you build will improve their marketability by offering lower heating and cooling energy costs to potential buyers. The techniques are available and simple to incorporate. No special equipment, materials, or highly specialized construction skills are required. The techniques can be included in all styles from traditional to contemporary. This workshop informs you on how to minimize building costs in putting passive solar techniques to work for you.

- You get a first-hand look at how a passive solar home is designed and constructed, and how it works...
- You get expert advice on special problems, information on passive solar techniques, design approaches, construction tips, marketing... and

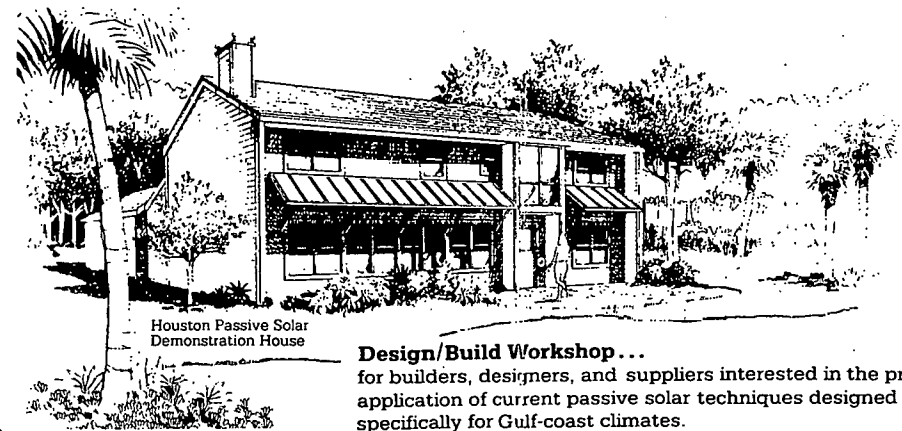
- You receive a valuable passive solar application guide for southern builders.

Don't miss this stimulating and informative workshop!

**DON'T BE THE ONE THAT'S LEFT
BEHIND...**

Speakers

- | | |
|---------------------|---|
| Jim Borden | Program Manager
Passive Solar Programs
Southern Solar Energy
Center
Atlanta, Georgia |
| Bob Naismith | President
Potomac Energy Group
Alexandria, Virginia |
| Bob Reed | Vice President
Doyle Stuckey Homes
Houston, Texas
Builder: Houston Passive
Solar Demonstration House |
| David Prince | Environment Associates,
LaVerne A. Williams AIA,
and Partner, Architects:
Houston Passive Solar
Demonstration House |



Design/Build Workshop...
for builders, designers, and suppliers interested in the practical application of current passive solar techniques designed specifically for Gulf-coast climates.

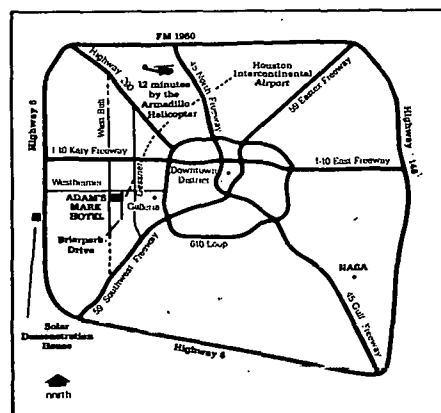
Agenda - August 7, 1981

- 7:30 am **Registration**
- 8:00 am **Passive Solar: Building for the Future**
Speaker: Jim Borden
 A state-of-the-art overview of passive solar energy and the building community.
- 8:30 am **Passive Solar Concepts: Conservation and Insulation**
Speaker: Bob Naismith
 Techniques to reduce energy losses to get the most benefit out of passive solar applications.
- 9:30 am **Coffee Break**
- 9:45 am **Passive Solar Concepts: Cooling and Heating**
Speaker: Bob Naismith
 Step-by-step guidance to using simple techniques for designing and constructing passive solar structures.
- 11:30 am **Group A* - Luncheon**
Group B - Houston Solar House Tour
- 12:45 pm **Group B* - Luncheon**
Group A - Houston Solar House Tour
- 2:00 pm **Designing for Houston Passive Solar: The Architect's Perspective**
Speaker: David Prince
 Selecting the appropriate design approach, problem solving, compromising, and architect/builder cooperation.

- 2:45 pm **Building for Passive Solar Homes: The Builder's Viewpoint**
Speaker: Bob Reed
 Working with the architect, construction problems and marketing approaches.
- 3:15 pm **Coffee Break**
- 3:30 pm **Passive Solar: Making It Work for You**
Panel Discussion
 An audience participation session designed to answer your questions and provide a free-form discussion of potential problems and benefits.
- 4:30 pm **Adjournment**

*Participants will be split into two groups for touring.

Location Map



Hotel Reservation Form

The Workshop will be held at
ADAM'S MARK HOTEL
2900 Briarpark Drive at
Westheimer Road
Houston, Texas 77042
Toll Free: (800) 231-5858
In Texas: (800) 392-2400

An elegant choice for your stay in Houston. Free transportation provided to the famous Galleria Mall, ten minutes east of the hotel. Adjacent to Carillon West Shopping Village. Dine, dance, or socialize in the hotel's four distinctly different lounges or restaurants. Helicopter service (12-minute ride) is available to the Houston International Airport.

For overnight accommodations, fill out the reservation form and send it along with the Workshop Registration Form. We'll be glad to make your reservations, but require your reservation form no later than August 1. Overnight accommodations are not included in the registration fee.

name _____

organization _____

address _____

telephone _____

date of arrival _____ time of arrival* _____ date of departure _____

*reservations will be held only until 6:00 pm on arrival date unless notified

Room Rates

Weekdays:	Weekend Special:
single or double	single or double
\$72.00 per night	(Friday, Saturday, Sunday)
	\$36.95 per night

Workshop Registration Form

If you are interested in attending the **PASSIVE SOLAR HOMES Design/Build Workshop**, please fill out the registration form below and send it with your check (payable to CALCULON Corporation) to:

Bob Reed, Vice President
Doyle Stuckey Homes
911 Bunker Hill Road
P.O. Box 19546
Houston, Texas 77024

Nominal fee for workshop is \$55.00. Fee includes:

- Attendance at workshop talks
- Participation in panel discussion
- Guided tour of demonstration home
- Bus transportation to and from demonstration home
- Morning and afternoon breaks (coffee, tea, soft drinks, danish, etc.)
- Luncheon
- Guide book: Building With Passive Solar
- Imprinted workshop briefcase with passive solar information fact sheets.

Due to space limitations, the workshop is limited to 100 persons. Participants will be accepted on a first-come, first-serve basis.

MAIL TODAY!

name _____

title _____

organization _____

address _____

telephone _____