

B. List of Conference Participants

INTERNATIONAL WORKSHOP
ON
EARTHEN BUILDINGS IN SEISMIC AREAS

List of Participants

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C. Conference Schedule and Workshop Session Assignments

| <u>DATE</u> | <u>TIME/PLACE</u> | |
|-------------------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sunday, May 24 | 7:30-9:30 p.m. Cabaret Room Hilton Inn | <u>Reception and Registration</u> |
| Monday, May 25 | 7:15 and 8:15 a.m. Hilton, AMF, Holiday Inn, Dollar Inn | <u>Buses</u> from Hotels to Campus |
| | 8:00-9:00 a.m. | <u>Late Registration</u> (ME Bldg) |
| | 9:00-9:15 a.m. Plenary Rm. 218 ME Bldg | <u>Welcome:</u> Gerald W. May Dean, College of Engineering University of New Mexico |
| | 9:15-9:45 a.m. Plenary Rm. 218 ME Bldg | <u>Opening Address:</u> John A. Blume President, URS/J.A. Blume & Associates Past Pres. Earthquake Engineering Research Institute (EERI) |
| | 9:45-10:15 a.m. Plenary Rm. 218 ME Bldg | <u>Keynote Paper:</u> W. O. Keightley Professor, Dept. of Civil Engineering Montana State University |
| | 10:15-10:45 a.m. Plenary Rm. 218 ME Bldg | <u>Keynote Paper:</u> Ian Davis Disasters & Settlements Unit Dept. of Architecture Oxford Polytechnic |
| | 10:45-11:00 a.m. Lobby, ME Bldg | <u>Break</u> |
| | 11:00-11:45 a.m. Plenary Rm. 218 ME Bldg | <u>Keynote Paper:</u> Aybars Gurpinar Staff Consultant, D'Appolonia S.A. |
| | 12:00-1:15 p.m. Patio, ME Bldg | <u>Lunch</u> |
| | 1:30-2:00 p.m. Plenary Rm. 218 ME Bldg | NSF Programmatic Perspectives Frederick Krimgold Earthquake Hazard Mitigation Program Robert W. Lawson Appropriate Technology Program |

| <u>DATE</u> | <u>TIME/PLACE</u> | |
|--------------------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Monday, May 25 | 1:30-4:30 p.m. Rms. 206, 208, 210, 214, 220, ME Bldg | <u>Work Sessions:</u> I, II, IV, V (English) III (Spanish) |
| | 4:45 p.m. | <u>Buses</u> to Hotels |
| | Evening Open | |
| Tuesday, May 26 | 8:00 and 8:35 a.m. Hilton, AMF, Holiday Inn, Dollar Inn | <u>Buses</u> from Hotels to Campus |
| | 9:00-9:15 a.m. Plenary Rm. 218 ME Bldg | <u>Introduction:</u> Frederick C. Cury Executive Director, INTERTECT |
| | 9:15-9:45 a.m. Plenary Rm. 218 ME Bldg | <u>Keynote Paper:</u> Eric Carlson U.N. Centre for Human Settlements (HABITAT) |
| | 9:45-10:15 a.m. Plenary Rm. 218 ME Bldg. | <u>Keynote Paper:</u> Haresh Shah Prof. of Structural Engineering Stanford University |
| | 10:15-10:30 a.m. Lobby, ME Bldg. | <u>Break</u> |
| | 10:30-11:00 a.m. Plenary Rm. 218 ME Bldg | <u>Keynote Paper:</u> Roberto Meli Instituto de Ingenieria Universidad Autonoma de Mexico |
| | 11:00-11:30 a.m. Plenary Rm. 218 ME Bldg | <u>Keynote Paper:</u> P. G. McHenry McHenry and Company, Albuquerque |
| | 11:30-12:00 Noon Plenary Rm. 218 ME Bldg | <u>Keynote Paper:</u> Julio Vargas Neumann Director de Investigacion Departamento de Ingenieria Pontificia Universidad Catolica del Peru |
| | 12:00-1:15 p.m. Patio, ME Bldg | <u>Lunch</u> |
| | 1:30-4:30 p.m. Rms. 206, 208, 210, 214, 220, ME Bldg | <u>Work Sessions:</u> I, III, IV, V (English) II (Spanish) |

| <u>DATE</u> | <u>TIME/PLACE</u> | |
|----------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Tuesday, May 26 | 4:45 p.m. | <u>Buses to Hotels</u> |
| | 7:30 p.m. Hilton Inn | <u>International Case Studies</u> |
| Wednesday, May 27 | 8:00 and 8:35 a.m. Hilton, AMF, Holiday Inn, Dollar Inn | <u>Buses from Hotels to Campus</u> |
| | 9:00-12:00 Noon Rms. 206, 208, 210, 214, 220, ME Bldg | <u>Work Sessions: II, III (English) I, IV, V (Spanish)</u> |
| | 12:00-1:15 p.m. Patio, ME Bldg | <u>Lunch</u> |
| | 1:30-4:30 p.m. Buses leave from ME Bldg; return to hotels | <u>Corrales Tour</u> Adobe yard, construction site |
| | 6:00 p.m. Hilton, AMF, Holiday Inn, Dollar Inn | <u>Buses to Old Town</u> |
| | 7:30 p.m. La Placita Restaurant Old Town, Albuquerque | <u>Banquet</u> <u>Speaker:</u> P. G. McHenry <u>Buses return to hotels after Banquet.</u> |
| Thursday, May 28 | 9:30 a.m. Hilton Inn <u>only</u> | <u>Bus for Santa Fe Tour (Optional)</u> |
| | 5:00 p.m. Hilton Inn <u>only</u> | <u>Bus returns from Santa Fe</u> |

SUGGESTED WORKSHOP ASSIGNMENTS

TUESDAY, May 26, 1981

SUBJECT AREA 1: SOCIAL, ECONOMIC & CULTURAL ASPECTS (English)

| | | |
|---------------|------------|-----------|
| Bates | Huden | Murtz |
| Bender | Krimgold | Oakley |
| Cash | Mathur (P) | Scawthorn |
| Davis | McHenry | Snarr (P) |
| Gerbrandt (P) | McKay | Ural |
| | | Vargas |

SUBJECT AREA 2: MATERIALS (Spanish)

| | | |
|----------|---------|------------------|
| Acosta | Ordonez | Razani |
| Crisosto | Penalba | Samanez Argumedo |
| Giuliana | Perdomo | Tejado (P) |
| | | *Torres |

SUBJECT AREA 3: STRUCTURES (English)

| | | |
|------------|---------------|-------------|
| Abrams (P) | Kalevras (P) | R. Parker |
| Aytun | *Keightly | Rihal (P) |
| Barash | Luther (P) | Shaw |
| Bosl | Maiola | Ural |
| Butler | Mostaghel (P) | Webster (P) |
| Crosby | K. K. Mumtaz | White |
| | | Yorulmaz |

SUBJECT AREA 4: IMPLEMENTATION (English)

| | | |
|----------|----------------|-----------|
| Agarwal | Carlson | Oliver |
| Arya | Haney | K. Parker |
| Asturias | Hartkopf | Rockwell |
| Boen | *B. Mumtaz (P) | Spence |
| Burk | Oakley (P) | Webster |

SUBJECT AREA 5: CODES, SPECIFICATIONS AND STANDARDS (English)

| | | |
|------------|------------|--------------|
| Abrams | Burk | Kalevras |
| Agarwal | Erdik | Meehan (P) |
| Aytun (P) | Gurpinar | Webster |
| Barnes (P) | *Haney (P) | Yorulmaz (P) |
| | Jain | |

* Session Leader

(P) Presenting a Paper

SUGGESTED WORKSHOP ASSIGNMENTS

MONDAY, May 25, 1981

SUBJECT AREA 1: SOCIAL, ECONOMIC & CULTURAL ASPECTS (English)

| | | |
|------------|----------|------------------|
| Agarwal | Crosby | B. Mumtaz |
| Asturias | Harthopf | K. K. Mumtaz (P) |
| Barash (P) | Jain | Oakley |
| Butler | Luther | *Oliver (P) |
| Carlson | Maiola | K. Parker |

SUBJECT AREA 2: MATERIALS (English)

| | | |
|----------|--------------|--------------|
| Bender | Meehan | *Plecnic (P) |
| Boen | Mostaghel | Scawthorn |
| Burk | K. K. Mumtaz | Spence |
| Kalevras | Murty | Yorulmaz |

SUBJECT AREA 3: STRUCTURES (Spanish)

| | | |
|--------------|-----------|-------------|
| Acosta | Herrera | Penalba (P) |
| Bejarano | Meli | Perez |
| Crisosto (P) | Ordonez | Tejada |
| Giuliani (P) | R. Parker | Torres (P) |
| | | Vargas |

SUBJECT AREA 4: IMPLEMENTATION (English)

| | | |
|-----------|------------|--------|
| Abrams | Butler (P) | Huden |
| Aytun | Davis | *McKay |
| Barnes | Erdik (P) | Snarr |
| Bates (P) | Gurpinar | White |

SUBJECT AREA 5: CODES, SPECIFICATIONS AND STANDARDS (English)

| | | |
|------|----------|----------|
| Arya | Krimgold | Rockwell |
| Boen | *McHenry | Ural |
| Bosl | Razani | Webster |
| Cash | Rihal | |

*Session Leader

(P) Presenting a Paper

SUGGESTED WORKSHOP ASSIGNMENTS

WEDNESDAY, May 27, 1981

SUBJECT AREA 1: SOCIAL, ECONOMIC & CULTURAL ASPECTS (Spanish)

| | |
|-----------|----------------------|
| Acosta | Perez |
| Bejarano | Samanez Argumedo (P) |
| *Ordonez | |
| K. Parker | |
| Peradomo | |

SUBJECT AREA 2: MATERIALS (English)

| | | |
|-----------|--------------|---------|
| Abrams | Maiola | Webster |
| Crosby | B. Mumtaz | White |
| Hartkopf | Rihal | |
| Huden | Rockwell (P) | |
| Keightley | Shaw | |

SUBJECT AREA 3: STRUCTURES (English)

| | | |
|-----------|-----------|---------------|
| Arya (P) | Jain | Meehan |
| Aytun | Kringold | Rezani |
| Barnes | McHenry | Rihal |
| *Boen (P) | McKay | Scawthorn (P) |
| Burk | Mostaghel | Snarr |
| Cash | Murtz | Spence (P) |
| Davis | Oakley | Webster |
| Erdik | Oliver | |
| Gurpinar | Plecnic | |

SUBJECT AREA 4: IMPLEMENTATION (Spanish)

| | |
|-------------|------------------|
| *Bender (P) | Samanez Argumedo |
| Bejarano | Tejada |
| R. Parker | |
| Perdomo | |
| Perez | |

SUBJECT AREA 5: CODES, SPECIFICATIONS AND STANDARDS (Spanish)

| | |
|----------|---------|
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| Barash | Torres |
| Carlson | *Vargas |
| Crisosto | |
| Giuliani | |

*Session Leader

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(P) Presenting a Paper

D. Products of the Conference

1. Documents

There are three documents which describe the work of the conference and present the papers prepared as a result of the conference. They are:

a. The Proceedings of the conference (papers submitted by invited participants as well as others who could not attend)

b. The Research Needs and Priorities

c. An annotated bibliography on earthen buildings in seismic areas and related topics.

The Proceedings will be published as two separate volumes, and the Research Agenda and Bibliography will be combined in a third volume.

2. Establishment of An International Working Group

During the last plenary session of the workshop, the participants elected to hold a meeting to discuss follow-up activities, to continue the work and spirit of the workshop. At a meeting on the final day, a group composed of more than one third of the participants voted to formally establish an international working group to work towards the goal of reducing vulnerability of earthen buildings in seismic areas. The group asked the conference organizers to serve as a focal point for the working group and to carry out the following activities:

a. To prepare a draft declaration describing the scope of the problem as established by the conference and citing the need for further research in order to reduce the problem.

The purpose of this declaration is to bring the scope of the problem and need for more work in this critical area to the attention of the earthquake engineering community and the implementing agencies.

b. To establish the framework for an international effort to address the problem. The participants elected to formally establish an International Working Group on the Improvement of Earthen Buildings in Seismic Areas. This working group is to

serve as a vehicle for information exchange among researchers and practitioners, and to sponsor follow-up activities to the conference.

c. To establish an information center. The participants asked the conference organizers to establish a center for the compilation and dissemination of information on earthen buildings in seismic areas and to provide a focal point for the exchange and translation of key documents in the subject area.

d. To prepare and publish a newsletter.

e. To organize immediate follow-up activities to facilitate coordination of research and standardization of reconnaissance, research and implementation activities.

II. STATE-OF-THE-ART AND RESEARCH NEEDS AND PRIORITIES

The research agenda is divided into five topic areas which coincide with the work groups that were established during the conference. They are:

- A. Structures
- B. Materials
- C. Social, Economic and Cultural Aspects
- D. Program Implementation
- E. Building Codes, Specifications and Standards

The research agenda for each topic area is preceded by a description of the state-of-the-art as identified by the participants. The research topics are then identified and organized according to either priority or a logical progression of activity.

Each research need is presented with a descriptive statement, a description of the specific tasks and action required, and recommendations for implementation and support. This material was compiled from the notes of each of the discussion groups.