

54th ANNUAL MEETING WESTERN SNOW CONFERENCE

April 15-17, 1986

Phoenix, Arizona



PROCEEDINGS
of the
WESTERN SNOW CONFERENCE

Phoenix, Arizona
April 15 - 17, 1985

FIFTY-FOURTH ANNUAL MEETING

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PROCEEDINGS OF THE WESTERN SNOW CONFERENCE

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MINUTES OF THE EXECUTIVE COMMITTEE
WESTERN SNOW CONFERENCE
PHOENIX, ARIZONA

The meeting was called to order by General Chairman Jack Hannaford at 12:00 noon April 16, 1986. Proxies were accepted and welcomed to the group.

The first order of business that the General Chairman called for was the nomination, by the North Pacific Area Chairman, of their candidate for General Chairman for the 1986-1987 term. R. Richards placed the name of Art Crook on the floor as their nominee for General Chairman. The nomination was seconded and passed. Art Crook was escorted into the room and given a hearty welcome. The General Chairman asked that the name of newly elected General Chairman be kept a secret until the banquet Wednesday night.

The General Chairman asked the Secretary to report on the minutes of the 53rd Annual Executive Committee Meeting. R. Davis stated that the minutes of the 1985 meeting were published in the Proceedings of that year and moved that they be accepted as published. The motion was seconded and passed.

The General Chairman asked the Secretary to present the Financial Report of the Conference. R. Davis stated that the Financial Report is on the table before each member. He stated that this report is not audited as there was not enough time between receiving the information from the bank, getting it down on paper and trying to arrange for the audit team. All the material was here if any member wished to review the books. It was pointed out by an executive committee member that the loss on the books could be partly accounted for by some of the expenses for the Phoenix meeting that were paid for during the previous year and should not be debited to that year. Additional discussion was held and questions answered. R. Davis moved that the Financial Report be accepted as presented. The motion was seconded and passed.

The General Chairman asked for the reports of the standing committees:

Publication Committee: C. Troendle stated that he had again made a commitment for the printing of the Proceedings with CSU and that they would start the first of July. The Proceedings would be out about six weeks later or no later than the first of September. This schedule is similar to that of last year. He stated that 700 copies of the program were printed instead of the 200 usually printed, because it was decided to mail out the programs to every member before the meeting. This cost an additional \$200.00.

Awards Committee: B. Brown stated that the committee judging the best paper was at work and the announcement would be made at the banquet Wednesday evening. There was considerable discussion on what kind of award, other than the placement and title sheet in the Proceedings, would be appropriate. It was the suggestion of the General Chairman that any type of award other than that already in place was the prerogative of the Program Committee. B. Brown asked that all candidates for life membership were due now so that they could be voted on at this meeting. The final members voted into life membership were R. Tabler, B. Whaley, Wm. Fong and T. Wilson. It was announced that all Executive Committee Chairmen were to have at least one candidate for El Farsante that they would nominate the night of the banquet. All nominees must be given to the Awards Chairman beforehand. The Secretary announced that Dan O'Neil had been chosen to receive the Dr. Church Award. There was some discussion regarding the qualifications of the recipients of the Dr. Church Award with suggestions that it might be restricted to certain career goals such as Engineering, but no motion was made.

Wilderness Committee: no chairman. The General Chairman gave a brief overview of the goals of the Conference with regards to the Wilderness Bill and instrumentation in Wilderness areas.

Old Business: The General Chairman asked A. Crook for a brief review of the status of the Snow Survey Program following last years announcement of the budget reduction and eventual elimination of the program from the Soil Conservation Service activities. A. Crook stated that Congress had exerted its influence and that for the present things were just about the same except for the budget cuts that everyone was experiencing.

New Business: The General Chairman asked for the report of the 1988 meeting location. It was announced that the 1988 Western Snow Conference will be held in Kalispell, Montana which is located in the Flathead Valley just west of Glacier Park.

The General Chairman then asked R. Richards for his report of the 1987 meeting. R. Richards said that their first choice of a hotel had increased their price after discussion with him, so he had finally selected the newly remodeled Georgia Hotel in the middle of downtown Vancouver. Parking is adjacent to the hotel. The Program Committee is composed of Doug Golding, Chairman; C. Slaughter, B. Shafer, and J. Stanley. The Local Arrangements Committee will be composed of R. Richards, Chairman; and N. Leupold, Jr. The general theme is "Consistent Data in a Dynamic Environment". Suggested subject areas are: 1) Instrument accuracy and reliability, 2) Effect of logging and other land-use changes, 3) Role of micro-computers in data acquisition, analysis and forecasting, 4) Data consistency and forecasting. A proposed tour of the Fraser Valley Flood Control Program (tentative) is planned for Thursday.

R. Richards suggested that a theme for the 1987 SNOW NOTES Section of the Proceedings be adopted. He suggested that perhaps a theme will channel your recall of experiences, both personal and otherwise for enlightenment and entertainment. He proposes: "BEAR ENCOUNTERS OF THE FURRY KIND", but says don't let this limit your ideas.

The General Chairman thanked R. Richards for his report and asked if there was any other New Business. The Secretary said that there was a request from one of the members for a copy of the mailing list to be used to promote the sale of his reference book. There was considerable discussion and it was moved and passed that the mailing list can be used by members for their purposes if approved by the Executive Committee. B. Lang stated that it had been some time since the Secretary had received an increase in his emolument and proposed that the emolument be increased to \$250.00. It was moved, seconded, and passed. A discussion was held on the need to up-date the Constitution and By-Laws of the Conference. The General Chairman appointed W. Simons, past General Chairman and Conference Historian to chair a committee composed of himself and W. Lang, a charter member of the Conference, and also a past General Chairman. Their report will be presented to the general membership at the general meeting.

There being no further business the General Chairman adjourned the meeting.

Respectfully submitted

Robert T. Davis, Secretary

MINUTES OF THE BUSINESS MEETING
WESTERN SNOW CONFERENCE
PHOENIX, ARIZONA

The General Business Meeting of the Western Snow Conference was called to order by General Chairman Jack Hannaford at 8:20 A.M. April 16, 1986, at the Sahara Camelbsck Inn in Phoenix, Arizona.

The General Chairman asked the Secretary to read the minutes of the 1985 business meeting held in Boulder, Colorado. R. Davis stated that the minutes of that meeting were published in the Proceedings of that meeting and moved that they be accepted as published. R. Jairell seconded the motion which was passed.

The General Chairman requested that the Secretary present the Financial Report of the Conference. R. Davis stated that the financial report for the past year had been approved by the Executive Committee and gave a brief resume of the finances of the Conference for the general membership.

The General Chairman requested reports from the standing committees.

Publication Committee: B. Shafer and C. Troendle

C. Troendle stated that the program cost for the 1986 meeting would be approximately \$200.00 more than last year due to the fact that programs were mailed to all members prior to the meeting. A bibliography of Eastern Snow Conference papers will be published this year. We have a printing deadline of July 1, 1986, so all papers are due at this time.

Awards Committee: B. Brown

B. Brown stated that the Author of the Best Paper would be announced at the Banquet. (The winner of the Best Paper Award went to Tom Carroll.) The announcement of the winner of the El Farsante would be made at the Banquet. (R. Jones was awarded the El Farsante for 1986.) Life Membership awards were awarded to: B. Whaley, Wm. Fong, R. Tabler, and T. T. Wilson. The Dr. Church Award recipient was Dan O'Neill of the Reno High School.

Constitutional Amendments: W. Simons & B. Lang

W. Simons presented amendments to the Constitution and By-Laws of the Conference 1) definition of Life Member, 2) removal of all reference to a dollar amount under dues and publication costs as these costs are set by the Executive Committee. 3) a statement regarding the handling of non-conference material by the conference secretary. W. Simons moved the adoption of these amdnments and to have them published in the 1986 Proceedings. R. Jones seconded the motion which passed.

The General Chairman discussed the importance of the standing committees and thanked the members for their efforts.

There was no Old Business.

Under New Business there was discussion of: 1) ways to maintain and build membership in the Conference, 2) the possibility of including a student paper, 3) the use of individual contact to spread the word about the Western Snow Conference.

It was announced that the 1988 meeting of the Western Snow Conference would be held in Kalispell, Montana.

The General Chairman asked R. Richards to make the announcement about the 1987 meeting. R. Ricahrds stated that the Conference would hold it's 1987 meeting in Vancouver, British Columbia in the Georgia Hotel, a newly remodeled hotel in the center of Vancouver. The Program Committee will be chaired by Doug Golding and will consist of Golding, C. Slaughter, B. Shafer and J. Stanley. The Local Arrangements Committee will be chaired by B. Richards and will consist of Richards and N. Leupold, Jr. The Conference Theme is "Consistent Data in a Dynamic Environment".

The General Chairman stated that the name of the new General Chairman (Arthur G. Crook) will be announced at the Banquet and that the gavel will be turned over at that time.

The General Chairman expressed his thanks to the 1986 Program Committee, Neil Berg, Chairman; Margaret Hannaford, Bruce McGurk, and Ron Moreland, members; and to the Local Arrangements Committee, Ron Jones, Chairman; John Keane, Dallas Reigle, and Darrel Jordan. He also thanked the Secretaries Bob and Jackie Davis; past Executive Committee members and the Conference members in general.

The meeting was adjourned at 9:00 A.M.

Respectfully submitted,

Robert T. Davis, Secretary

ATTENDANCE ROSTER
WESTERN SNOW CONFERENCE
Phoenix, Arizona

Aguado, Edward	San Diego, California
Allen, Milan W.	Kansas City, Missouri
Baird, G. H. (Pete)	Roseville, California
Baker, Dennis	Loveland, Colorado
Ball, Ann	Boulder City, Nevada
Barnes, George	Woodland Hills, California
Bates, Mr. & Mrs. William	Denver, Colorado
Becker, Robert	Window Rock, Arizona
Berg, Neil	Berkeley, California
Bernath, Stephen	Window Rock, Arizona
Bernier, Pierre	Edmonton, Alberta
Bluhm, George C.	Ridgefield, Washington
Bowers, Thomas J.	Sandy, Utah
Brazel, Anthony	Tempe, Arizona
Brown, Bob	Rosemead, California
Buchanan, Lisa	Boulder, Colorado
Carroll, Tom	Minneapolis, Minnesota
Catron, Robert	Ft. Defiance, Arizona
Conway, Mr. & Mrs. Robert	Sun City, Arizona
Cooley, Keith	Boise, Idaho
Crook, Mr. & Mrs. Arthur	Beaverton, Oregon
Dahl, Mr. & Mrs. Robert	Oakdale, California
Davis, Mr. & Mrs. Robert	Spokane, Washington
Dearing, Mr. & Mrs. Bill	Wenatchee, Washington
Drews, M.	Edmonton, Alberta
Eckhardt, John	Loveland, Colorado
Enz, Mr. & Mrs. Dick	Tempe, Arizona
Ester, Charles ✓	Phoenix, Arizona
Fecke, William	Fairfax, Virginia
Foster, James	Greenbelt, Maryland
Freeman, Gary J.	San Francisco, California
Gay, Lloyd	Tucson, Arizona
Gillingham, Douglas	Los Angeles, California
Golding, Mr. & Mrs. Douglas	Vancouver, British Columbia
Gordon, Mr. & Mrs. Bill	Vancouver, British Columbia
Graham, Mr. & Mrs. David	Edmonton, Alberta
Griffith, Don	Salt Lake City, Utah
Hannaford, Mr. & Mrs. Jack	Placerville, California
Henderson, Thomas	Fresno, California
Hereth, Herb	Sacramento, California
Hester, Gary	Sacramento, California
Hoffman, Kathryn	Boulder, Colorado
Holmes, George	Gladstone, Oregon
Horton, Carrol	Fresno, California
Jairell, Mr. & Mrs. Robert	Laramie, Wyoming
Johnson, David	Portland, Oregon
Jones, Ron	Mesa, Arizona
Jordan, Darrel ✓	Phoenix, Arizona
Keane, John ✓	Phoenix, Arizona
Kim, Sung	Moscow, Idaho
Ladine, D. A.	Glendale, California
Lang, Mr. & Mrs. William	Laguna Hills, California
Leavesley, George	Lakewood, Colorado
MacDonald, Lee	Oakland, California
Marron, James	Beaverton, Oregon
McGurk, Bruce	Berkeley, California
McNealy, Delbert	El Paso, Texas
Meiman, Jim	Wellington, Colorado
Metteba, Ray	Ft. Defiance, Arizona
Mills, Kimberly	Denver, Colorado

Molnau, Myron
Palmer, Peter & Amy Haak
Potter, Val
Potts, Mr. & Mrs. Donald
Powell, Douglas
Reed, Mr. & Mrs. Kenneth
Reigle, Dallas
Richards, Bob & Mary Bell
Rockwood, Mr. & Mrs. Dave
Roos, Maurice
Sack, Ronald
Sarantitis, Barbara
Schaefer, Garry
Shafer, Mr. & Mrs. Bernie
Simons, Mr. & Mrs. Wilbur
Slaughter, Mr. & Mrs. Charles
Spence, Jim
Stanley, James
Stein, Richard
Steppuhn, Mr. & Mrs. Harold
Sturges, David
Swanson, Robert
Swanson, Angela
Sytsma, Mr. & Mrs. Don
Tabler, Ron
Toews, Dabid
Troendle, Charles
Van Haveren, Bruce
Wallace, Mr. & Mrs. Jack
Washichek, Mr. & Mrs. Jack
Werner, Jon
Whaley, Mr. & Mrs. Bob
Whitaker, Robb
Wilson, Wallace
Worm, Chester
Zickus, Tom
Zuzel, John

Moscow, Idaho
Boise, Idaho
Logan, Utah
Missoula, Montana
Berkeley, California
Hillsboro, Oregon
Phoenix, Arizona
Victoria, British Columbia
Vancouver, Washington
Sacramento, California
Moscow, Idaho
Boulder, Colorado
Denver, Colorado
Beaverton, Oregon
Mountain View, California
Fairbanks, Alaska
Sacramento, California
Portland, Oregon
Oakland, California
Swift Current, Saskatchewan
Laramie, Wyoming
Edmonton, Alberta
Kent, Washington
Kent, Washington
Laramie, Wyoming
Nelson, British Columbia
Fort Collins, Colorado
Lakewood, Colorado
Victoria, British Columbia
Fort Collins, Colorado
Salt Lake City, Utah
Boise, Idaho
Los Angeles, California
Glendale, California
Omaha, Nebraska
Phoenix, Arizona
Pendleton, Oregon

I N D E X
 TO
THE PROCEEDINGS
 OF THE
EASTERN SNOW CONFERENCE
 1952 through 1984

This index is an updated version of that produced by the Research Committee in the 1975 Proceedings to increase the availability and utility of the information in papers presented at the annual meetings. The subject classification is the same as that used in the previous version.

Peter Adams
 President
 1984-85

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EASTERN SNOW CONFERENCE

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- Aerial Observation - 94,117,145,215
- Aerosols - 27,157
- Airfields -16,103
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- Atmospheric Pressure - 43,266
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- Blizzards - 11,168,191,204
- Blowing Snow - 44,93
- Bubbling Systems - 13,14
- Buildings - 35,144,366,367,368,369,370,371
- Cavitation - 5,17,19,24
- Climate - 42,52,61,128,134,142,148,171,219
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- Data Processing - 67,106,271,287,335,363
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 121,140,262,290,306,307,334,
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 275,349

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 134,136,145,177,203,211,216
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