

47th ANNUAL MEETING WESTERN SNOW CONFERENCE

April 18-20, 1979

Sparks, Nevada



PROCEEDINGS
of the
WESTERN SNOW CONFERENCE

Sparks, Nevada
April 18-20, 1979

FORTY SEVENTH ANNUAL MEETING

Manes Barton (General Chairman)
Soil Conservation Service
Room 510 Federal Bldg.
511 N. W. Broadway
Portland, Oregon 97209

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PROCEEDINGS OF THE WESTERN SNOW CONFERENCE

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WESTERN SNOW CONFERENCE

BIBLIOGRAPHY AND PROCEEDINGS

The Bibliography of Western Snow Conference Proceedings is available from the Secretary at a cost of \$10.00 for non-members and \$7.00 for members. This Bibliography lists the papers and abstracts of all papers of the Western Snow Conference from 1933 through 1973. This Bibliography is sent in a three-ring binder or the abstracts can be cut apart and placed in a 3 x 5 card file.

Selected issued of past Proceedings are also available from the Secretary at a cost of \$7.50 each. Not all years are available and some are in short supply. The years and issues that are available on a first come, first served basis are:

1953	21st	1958	26th	1959	27th
1960	28th	1961	29th	1962	30th
1964	32nd	1965	33rd	1966	34th
1967	35th	1968	36th	1970	38th
1971	39th	1972	40th	1973	41st
1974	42nd	1975	43rd	1976	44th
1977	45th	1978	46th	1979	47th

MINUTES OF THE EXECUTIVE COMMITTEE

WESTERN SNOW CONFERENCE Sparks, Nevada

The 47th meeting of the Western Snow Conference Executive Committee was called to order at 11:30 A.M. in the Centennial Room of the Nugget Lodge in Sparks Nevada, on April 19, 1979, by General Chairman Manes Barton.

The General Chairman asked that the Secretary read the minutes of the last Executive Committee meeting. R. Davis stated that the minutes of the 46th meeting were published in the Proceedings of that Conference and moved they be accepted as published. The motion was seconded by J. Brown and carried.

The General Chairman asked the Secretary to report on the financial status of the Conference. R. Davis stated that a audited statement of the financial transactions of the Conference were handed out and if there were any questions regarding the report they would be answered. J. van de Erve asked about the savings account and why there was so much in the checking account and so little in the savings account. It was explained that the savings account was depleted to finance the printing of the bibliography and for operating capital the last several years, when the Conference was operating at a loss. With the turn-around of the Conference capital we can start rebuilding our savings. J. Smith made further comment as did H. Coulson. There being no further questions the Secretary moved the adoption of the financial report as presented and audited. Seconded by N. Deets. Carried.

The General Chairman requested that all members holding proxies identify themselves. D. Alford for R. Tabler, no proxy for H. Haupt, G. Claggett or C. Leaf.

The General Chairman asked J. Meiman for the report of the Publications Committee. J. Meiman said that B. Shafer would make the report, but asked for any feed-back with regards to the "camera ready" approach for papers, and the inclusion of "Snow Notes" in the Proceedings. B. Shafer stated that they would like to continue the "Forum" addition to the Proceedings, that they had one paper last year and expected at least one this year. There had been some confusion with regards to the format of the typed paper, the publication policy of the Western Snow Conference, the examples of format and the ASCE material sent to the authors. B. Shafer suggested that the instructions be overhauled and only one set be sent to the authors. J. Brown was asked to comment on his request to the authors to supply him, by April 1, a copy of the paper and biographical sketch so that he could send it to the Session Chairmen for review prior to the conference. B. Shafer stated that this should be included in the publication policy. He also stated that the authors name, affiliation, address and phone number must be attached to the final paper that he received for review. J. Brown, as Program Chairman, concurred with B. Shafers suggestion. The General Chairman asked B. Shafer to proceed with this and implement this action for next year.

The General Chairman asked B. Brown for the Awards Committee report. B. Brown asked from each Area Chairman the candidates for Life Membership as well as El Farsante. He further stated that he would present the candidates and the reason for the candidacy from the podium instead of asking the Area Chairmen to do this. After further discussion it was decided that the Area Chairmen would present their candidates. There was discussion relative to the awarding of the silver past general chairman snowflake ties by B. Brown and J. Smith. It was determined that the ties would be presented by the General Chairman and that J. van de Erve, G. Castle and A. Kahan would be present to receive them at the banquet. After a lunch break during which there was much discussion about life membership qualifications, discussion continued. A request for nominees was made by the Awards Chairman. Before this could be made there was a question of clarifying the qualifying standards. The General Chairman proposed that he name a committee to study this and report back with a by-laws amendment at the next meeting. D. Kuehl, B. Thomas and J. Smith were named to handle this matter. B. Brown then moved that the following members be awarded Life Membership by the Western Snow Conference. H. Haupt, D. Carpenter and B. Clorety. Seconded by J. Brown. Carried. B. Brown asked about the status of Honorary Life Membership and asked if there were any nominations for Honorary Life. There were none. The General Chairman stated that traditionally the South Pacific Area has handled the Awards Chairmanship and for next year he would look to that group to continue.

The General Chairman asked P. Farnes for a report of the Metrication Committee. P. Farnes gave a brief background report and stated that at the general business meeting they would give a brief slide presentation. He further stated some of the problems encountered and their hopes to overcome these. With the changes to be made further testing will be done this next winter. He further stated that they are trying to maintain control of the sampling procedures by limiting the number of operators. It was suggested by the General Chairman that it would be appropos for the committee to develop a paper to be presented at the next Western Snow Conference giving the results of this endeavor. P. Farnes passed around the metric cutter that was used this past winter and stated that it would be modified slightly for next years sampling. W. Lang asked if the Western Snow Conference award for the design of a new cutter had ever been claimed. It was the consensus of the group that it had not. J. Brown commented that this work by the metrication committee compliments the Western Snow Conference.

The General Chairman asked W. Simons to report on his endeavor in putting together the history of the Western Snow Conference and how this relates to our 50th Anniversary meeting. W. Simons gave a brief rundown on what he has done in putting together the thoughts of the early General Chairmen and programs of the annual conferences with the idea of developing display material for the 50th meeting.

The General Chairman requested R. Moreland to give the report of the Archives Committee. R. Moreland stated that he had put nothing in the archives this past year and has no report.

The General Chairman asked R. Moreland for the Church Award report. R. Moreland announced that Brian Wilson would be this years recipient of the Dr. Church Award and that he would be at the banquet tonight to be recognized. The award would not be made at the banquet but at the Reno High School awards celebration. It was suggested that maybe a plaque should be presented instead of a certificate.

The General Chairman then brought up the subject of the 50th Anniversary Meeting. He stated that in the normal rotation of areas it would be in the North Pacific area and in the State of Washington in 1982. He further stated that it would be the responsibility of the four Area Chairmen to act as the Program Committee. There was discussion as to the appropriateness of using the four Area Chairmen as a program committee and further suggested that they might be used as an advisory group to the local area/program committee. After much discussion, a review of last years minutes, both executive and general, were made which clarified the wishes of the Executive Committee at that time. The General Chairman then reiterated that after the next election of the Executive Committee in 1980 one of the first tasks of the Area Chairmen will be to set up the guidelines for the local area to follow with regards to the 50th Anniversary meeting.

The General Chairman asked A. Kahan to give the Wilderness Committee report. A. Kahan stated that the current thinking of the Wilderness Committee is diplomacy while the past usage of resolutions etc. in support of the Sisk Bill might or might not have helped, it is now considered diplomatic to try and work with the management agencies. A system of an intra committee information service will be established and when something of major importance occurs, it will be circulated to all members of the Western Snow Conference. This intra committee newsletter will be established on a quarterly basis. It was further suggested that cooperation or at least non-opposition should be garnered from the environmentalist who have been most vocal against the establishment of these hydrometeorological sites. L. Ambrose was given permission to continue working with the Power Group he has been associated with in the past. The meeting was adjourned without drafting any resolutions. P. Farnes asked if the committee addressed the matter of the BLM entrance into the Wilderness Study areas.

The General Chairman asked L. Cox for a report of the 1980 meeting plans. L. Cox stated that the 1980 meeting will be held in Laramie, Wyoming at the Holiday Inn. The theme of the meeting will be "Wind and Snow". He further suggested that a pre-meeting similar to that held here be held, one entitled "Snow Management in Wind Swept Areas". This pre-meeting would be supported by the University of Wyoming and the Intermountain Experiment Station and would last a day and a half. Letters of welcome were acknowledged from Wyoming. There was considerable discussion about the pre-meeting and whether it would detract from the Conference. L. Cox responded that the North Continental Committee planned for the Western Snow Conference sessions of eight papers that were theme specific, four papers on new

technologies and four on miscellaneous subjects. After much further discussion B. Thomas moved that the conference reject the concept of a piggyback meeting. B. Shafer seconded. Carried. L. Cox moved that the 48th Western Snow Conference be held in Laramie, Wyoming with a theme "Wind and Snow". Seconded by A. Crook. Carried.

The General Chairman stated that last meeting it was decided not to have formal resolutions and asked if it was the committees wish to continue that concept. J. Smith responded as to why that concept was adopted. There being no objection, this concept will continue.

The General Chairman then stated that he was appointing R. Davis to continue as Secretary of the Western Snow Conference. In order to get the approval of the Executive Committee he was making this in the form of a motion. Seconded by J. Smith. Carried.

The General Chairman stated that the 1981 meeting is scheduled to be held in the South Continental Area and in the State of Utah. N. Deets proposed that the 1981 meeting be held in St. George, Utah. Access will be by commuter line, driving from Salt Lake City or Las Vegas, or by charter bus if that is wished. Good golfing weather will be guaranteed. N. Deets moved that the 1981 meeting be held in St. George, Utah, seconded by B. Shafer. Carried.

The General Chairman requested that R. Davis report on the action to procure the snowflake ties. R. Davis stated that he was working with J. Smith and B. Shillinglaw to obtain a source for the snowflakes. B. Shafer stated that the Micro Foundry out of Central City, Colorado could make a mold from the existing snowflake, but that it would be smaller. R. Moreland said that he had a silver snowflake made in Durango, Colorado but does not know where the mold is; the company is no longer in business. J. Smith moved that the Secretary and the General Chairman be authorized to take whatever steps are necessary to procure the ties for next year. Seconded by J. Brown. Carried.

There being no further business the meeting was adjourned.

Respectfully submitted,

Robert T. Davis, Secretary

MINUTES OF THE BUSINESS MEETING

WESTERN SNOW CONFERENCE Sparks, Nevada

The meeting was called to order by General Chairman Manes Barton at 9:00 A.M. Friday, April 20 in the Ponderosa Room of the Nugget Convention Center, Sparks, Nevada.

The General Chairman asked that the Secretary read the minutes of the last general business meeting. R. Davis stated that the minutes of the 46th meeting of the Western Snow Conference were published in the proceedings of that year and if there were no additions or corrections moved that they be adopted as published. Seconded by J. Smith. Carried.

The General Chairman asked R. Davis to give the financial report of the Western Snow Conference. A brief rundown of the financial report was presented. This report was discussed in detail by the Executive Committee and approved by that body. R. Davis moved the acceptance of the financial report as audited. Seconded by H. Coulson. Carried.

The General Chairman asked B. Shafer to make the report of the Publications Committee (See minutes of Executive Committee).

The General Chairman asked for the report of the Awards Committee. B. Brown was not present to make the report so the General Chairman entered into the records the names of those that received Life Membership; D. Carpenter, B. Clorety and H. Haupt. J. Meiman received El Farsante. A. Kahan, J. van de Erve, and G. Castle received past general chairmen silver bolo ties.

The General Chairman requested the report of the Metrication Committee and told the membership of the background leading up to this report. P. Farnes presented a short slide talk and reported on who the committee is, and what they have accomplished to date. It was suggested that the final report be in the form of a formal paper to be presented at the next Western Snow Conference meeting. Questions were asked by J. Smith about cutter size. D. Felgenhauer asked about the equipment that was being used in the European countries that have been metric for many years. J. Smith then introduced Dr. Martinec from Davos, Switzerland and asked him to describe the equipment they used. Dr. Martinec recommended the use of a software conversion or re-calibration of the scale to metric units such as they are now doing. The reason that they are using this method is that it is the only equipment available. P. Farnes stated that they hoped to come up with a set of standards and specifications for the equipment and have it called the "Western Snow Conference 10 or WSC 10" and a "Eastern Snow Conference 50 or ESC 50" that would be acceptable by all snow hydrologists. D. Felgenhauer suggested that a software conversion would be cheaper and would be the way to go. The General Chairman thanked the committee for their continued effort in this matter and looked forward to the formal paper/report next year.

The General Chairman announced the changes in the make-up of the Executive Committee. In the North Continental Area D. Golding resigned and was replaced by J. Haglund. Haglund resigned and was replaced by M. Mustapha who is in attendance here.

The General Chairman requested that W. Simons give a report on the activities of the Historical Committee (See minutes of the Executive Committee).

The General Chairman announced that the 1982 anniversary meeting will be the responsibility of the total conference and not just one area, and that the next elected Executive Committee will have that responsibility.

The General Chairman asked J. Brown if he would give the Wilderness report for A. Kahan (See minutes of Executive Committee). The DWR is planning on erecting demonstration sites in the Yosemite National Forest, both wilderness type and standard type. Further comment was made by L. Ambrose and J. Smith.

The General Chairman asked R. Moreland for the report of the Archives Committee and Dr. Church Award. R. Moreland stated that several persons have sent him material to go into the archives and that when W. Simons gets through with his historical compilation that will go in also. As to the Church Award, the recipient Brian Wilson was introduced at the banquet

last evening.

The General Chairman asked for the report of the 1980 meeting. L. Cox was not present so J. Wilson made the report (See minutes of Executive Committee). M. Mustapha will be the Program Chairman and R. Tabler will be Local Arrangements Chairman.

The General Chairman asked the South Continental area for its report on the 1981 meeting location (See minutes of Executive Committee).

The General Chairman announced that he had appointed R. Davis for another two year term as Secretary.

The General Chairman asked R. Davis for a report of the snowflake tie situation. (See Executive Committee minutes). It was suggested by R. Moreland that some members might have extra snowflakes that they would like to sell back to the conference, and it was announced that the Secretary would pay \$1.50 for each received.

The General Chairman then asked if there was any further business that should be brought to the attention of this group.

D. Pfankuch from Colorado stated a concern for the lack of monitoring of the results of cloud seeding. The General Chairman responded that past sessions of the Western Snow Conference have addressed themselves, in part, to this subject and asked R. Elliott if he cared to respond further. R. Elliott stated that the Western Snow Conference was on record favoring the Sisk Bill which would have permitted monitoring these conditions in Wilderness Areas but the current regulations of the Forest Service did not.

J. Smith suggested that the Western Snow Conference should be in the forefront of keeping its members informed of what is going on with the many concepts and ideas of agency policy, i.e., what is going to happen to the snow survey activity of the SCS, etc. He further suggested that the General Chairman form a Legislative Action Committee to keep our group informed and to have at the next session at least one speaker who could summarize what has occurred during the last year and what is in the offing for the future. This was moved by J. Smith and seconded by D. Felgenhauer. Discussion followed by many. The question was moved by B. Thomas. Motion carried.

D. Powell commented on the need for compromise with the environmentalists to show a true understanding of the needs of the environmentalists in miniaturization, etc., and that the DWR demonstration installations is a step in this direction.

The General Chairman expressed his thanks to all the people who have worked so hard to make this conference the success it was, B. Fong, G. Shafer, the South Pacific area chaired by B. Brown, J. Brown the Program Committee Chairman, R. Moreland the Local Arrangements, and especially to B. Moreland for the Ladies Program. He also thanked J. Davis for her help and R. Davis for his continuing support.

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

Respectfully submitted,

Robert T. Davis, Secretary

Awards presented at the Annual Banquet, Thursday, April 19, 1979

Life Membership: Harold Haupt
Barney Clorety
Dib Carpenter

El Farsante: Jim Meiman

ATTENDANCE ROSTER
WESTERN SNOW CONFERENCE
THE NUGGET
SPARKS, NEVADA
APRIL 18-20, 1979

Abel, Karl	Phoenix, Arizona
Abraham, Mr. & Mrs. Chuck	Omaha, Nebraska
Albright, Bill	Reno, Nevada
Alford, Donald	Laramie, Wyoming
Ambrose, L. K.	Seattle, Washington
Anderson, Clayton	Seattle, Washington
Armstrong, Mr. & Mrs. Richard	Boulder, Colorado
Atkins, Roy R.	McLean, Virginia
Baird, G. H. (Pete)	Sacramento, California
Ball, Ronald L.	Berthoud, Colorado
Barsch, Raymond E.	Washington, D. C.
Barton, Mr. & Mrs. Manes	Gresham, Oregon
Beach, Mr. & Mrs. Chauncey	Seattle, Washington
Beard, Mr. & Mrs. Gerald	Boise, Idaho
Benoit, Clif	Portland, Oregon
Berg, Neil	Berkeley, California
Berling, Mr. & Mrs. Bob	Loveland, Colorado
Bilello, Michael	Hanover, New Hampshire
Bishop, Mr. & Mrs. Gary	Denver, Colorado
Bissell, Vernon	Portland, Oregon
Bland, Mr. & Mrs. N. L.	Wenatchee, Washington
Born, Mr. & Mrs. Robert	La Jolla, California
Bowley, Clinton	Concord, Massachusetts
Boyne, H. S.	Boulder, Colorado
Brooks, Kenneth N.	St. Paul, Minnesota
Brown, A. J.	Sacramento, California
Brown, Bob	Rosemead, California
Brown, John Webster	Reno, Nevada
Burke, Mr. & Mrs. Mike	Emeryville, California
Burnash, Robert	Sacramento, California
Burns, Joseph	Sacramento, California
Burns, Patrick	Fort Collins, Colorado
Burroughs, Mr. & Mrs. Harry	McLean, Virginia
Christner, Jere	Eugene, Oregon
Cline, Terry	Moscow, Idaho
Coulson, Mr. & Mrs. Hal	Victoria, British Columbia
Cox, Bud	Boise, Idaho
Crook, Mr. & Mrs. Arthur	Portland, Oregon
Dahl, Mr. & Mrs. Bob	Oakdale, California
Davis, Robert E.	Santa Barbara, California
Davis, Mr. & Mrs. Robert T.	Spokane, Washington
Deets, Neil A.	Vernal, Utah
Dillard, John	Portland, Oregon
Dobson, Don	Vancouver, British Columbia
Dozier, Jeff	Santa Barbara, California
Dukes, Claude	Reno, Nevada
Elliott, Robert D.	Goleta, California
Farnes, Phillip	Bozeman, Montana
Felgenhauer, Don	Spokane, Washington
Fetty, Mr. & Mrs. Carl	Beaverton, Oregon
Ffolliott, Peter	Tucson, Arizona
Foehner, Olin	Denver, Colorado
Fong, William	Sacramento, California
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Freden, Stanley	Greenbelt, Maryland
Froelich, Donald	Los Angeles, California
Ganser, Mr. & Mrs. Joe	Reno, Nevada

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