

48th ANNUAL MEETING WESTERN SNOW CONFERENCE

April 15-17, 1980

Laramie Holiday Inn
Laramie, Wyoming



PROCEEDINGS

o f t h e

WESTERN SNOW CONFERENCE

Laramie, Wyoming

April 15 - 17, 1980

FORTY EIGHTH ANNUAL MEETING

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

Robert T. Davis (Secretary)
Soil Conservation Service
Room 360 U. S. Courthouse
Spokane, Washington 99201

Program Committee

A. Majeed Mustapha, Chairman
C. Daniel Lute
Michael A. Marsden
Ronald D. Tabler
Jack A. Wilson

Editorial Committee

Bernard A. Shafer, Editor
A. Majeed Mustapha
Robert T. Davis
James R. Meiman

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MINUTES OF THE EXECUTIVE COMMITTEE
WESTERN SNOW CONFERENCE
Laramie, Wyoming

The meeting was called to order by General Chairman Manes Barton. The General Chairman asked the Secretary, R. Davis to read the minutes of the last meeting. R. Davis stated that the minutes were published in the Proceedings and moved that they be approved as published. Seconded by D. Pfankuch. Carried. The General Chairman asked the Secretary to give the financial report. The report was presented and explained by R. Davis. After some questions by several members R. Davis moved the acceptance of the financial report. Seconded by B. Shafer. Carried.

The General Chairman welcomed the new members of the Executive Committee. Proxies for those members who could not be present were: A. Crook for G. Clagett, B. Brown for J. Hannaford, C. McCullough for J. Brown, D. Jordan for T. Henderson, O. Harder for J. Smith, I. Barnaby for R. Swanson, H. Boyne for J. Meiman.

The General Chairman asked that the North Continental Area Chairman R. Tabler present their candidate for the position of General Chairman for the 1980-82 period and subsequent election by this group. R. Tabler stated their committee had met and unanimously selected Jack A. Wilson as their nominee, and moved that J. Wilson be elected to the position of General Chairman for the next two years. R. Moreland seconded. The question of J. Wilson's retirement plans were asked and R. Tabler stated that as far as he knew it would be a couple of years and there would be no problem. Motion passed unanimously.

The General Chairman requested that J. Wilson be invited in for the rest of the meeting.

The General Chairman requested that B. Shafer give the report of the publications committee. B. Shafer handed out copies of a draft publication policy, and went through the several items one at a time. After much discussion the policy was adopted and is presented in these Proceedings. The General Chairman suggested D. Kuehl and R. Tabler work with B. Shafer on item 10, on the formal paper policy and Kuehl, Tabler and Crook work with him on the reproduction; and Boyne and Moreland work with Shafer on the informal paper policy. B. Shafer moved that the policy as changed be adopted. Seconded by D. Kuehl. Carried.

The General Chairman stated that A. Kahan, Chairman of the Wilderness Report, had to leave, but to his knowledge had no report to present. The legislative action committee reviewed a bill dealing with this problem, and asked B. Thomas to lead this discussion. There are two bills under discussion, HR5487 and HR5623. B. Thomas reported on the wilderness bills and how they will effect the collection of hydro data. These are the current bills before the legislature. B. Thomas suggested that the Western Snow Conference draft a letter to the western Congressmen expressing our concern for the effect these bills will have on hydro data collection. General discussion. B. Thomas moved that a letter be sent to the western legislators. Seconded by B. Whaley. Carried.

B. Thomas brought up another point regarding British Columbia snow survey activities. He stated that they are in the process of re-organizing and regionalizing their snow surveys and the possible effect of this on the downstream users. This is information only and no action is recommended. Some discussion was held.

The General Chairman asked that B. Brown give the awards committee report. B. Brown read the qualifications for Life Membership and asked for names from the group. Candidates for the El Farsante Award were also solicited.

The General Chairman requested discussion on the 1982, 50th anniversary meeting, from D. Kuehl which would nominally be in the North Pacific Area. D. Kuehl stated that the North Pacific Area agreed that they would switch with the South Pacific Area so that the 50th anniversary meeting could be held in Reno, Nevada as was requested by the conference membership. D. Kuehl moved that the Executive Committee recommend to the general membership that the 1982, 50th anniversary, be held in Reno, Nevada. Seconded by B. Shafer. B. Brown read a letter from the South Pacific Area Executive Committee inviting the confer-

ence to hold the 1982 meeting in Reno. The General Chairman reviewed the previous discussions regarding this meeting, and answered questions that it was a meeting of the conference and not just the South Pacific Area, that the Eastern Snow Conference was to be invited as guests to help us celebrate, but not as a joint meeting. The motion carried.

The General Chairman requested C. McCullough to present J. Brown's report on his findings of the question of the use of the membership list of the Western Snow Conference. The question was "shall the Western Snow Conference permit commercial use of its membership list"? Three alternatives are proposed. 1) the General Chairman appoint a three member committee to screen each request to determine if it is in the best interests of the conference and make recommendations to the General Chairman, 2) the membership be polled to determine if they want or don't want their names made available and if not, they would not if this alternative was adopted, 3) that the Western Snow Conference list not be given out for any purpose. The committee recommended the adoption of alternative No. 2. It was moved by C. McCullough that the conference adopt alternative number 2. Seconded. Discussion was requested by R. Davis. After discussion B. Shafer suggested that the conference either approve or disapprove the use of the lists. The motion was defeated. R. Davis moved that alternative number 3 be adopted. The motion was seconded and carried. The General Chairman asked that C. McCullough relay to J. Brown the thanks of the committee for his endeavors.

The General Chairman asked D. Huffman to present the report of the metrification committee. It was reported that the two new cutters developed had the same overweigh problem that the existing cutters have and a different cutter was subsequently built that still appears to overweigh, but not as much. The results, from the 57 separate tests made this year have not been analysed. The 50 cm Eastern Snow Conference cutter was just received and only 4 to 5 tests were made. The committee has no final report as they recommend that they continue through this snow season and through the next. D. Huffman in response to questions stated they hoped to have the final recommendation next year. It was felt that entirely different size would probably be recommended, something between the 10 cm and the 50 cm cutters now being tested. The General Chairman went on record as expressing his appreciation for the efforts of the committee and hoped that the new General Chairman would continue their tenure.

The General Chairman requested that D. Kuehl present the report of the constitution amendment committee. The committee recommends that Article III, part 4, of the constitution and by-laws be amended to read as follows: Life - Open to any member or former member of the Conference who is a past Executive General Chairman of the Conference or who has been active in the Western Snow Conference for not less than 10 years and has retired from a career position in snow hydrology or water supply field. It was moved by D. Kuehl and seconded by W. Simons that Article III be amended as stated be brought before the membership at the general meeting. Carried.

The General Chairman requested that the Secretary read the names of the members proposed for Life Membership that qualify. The following names were proposed; Dick Euz, Howard Matthal, Russell Revell, Neil Deets, Bud Cox and Harold Hafterson. It was moved that the six named members be awarded life membership in the Western Snow Conference. It was seconded and passed.

The General Chairman requested that W. Simons give the report of the Historical Committee. W. Simons stated that he was collecting material and sample material will be available next year.

The General Chairman requested R. Moreland to give the Dr. Church and Archives Reports. The Church Award recipient this year is Michael Wilcox, a pre-med student. Since the Dr. Church plaque has been lost by Reno High School, it is recommended that a new plaque be made. R. Moreland moved that the Western Snow Conference purchase a replacement plaque for the one lost and a new plaque starting this year; approximate cost \$350.00. The motion was seconded and passed. B. Shafer moved that the cost amount awarded to the Church recipient be increased to \$150.00 and the small plaque not be awarded. Motion was seconded and passed. R. Moreland stated that there are two J. E. Church Archives, one administered by the University of Nevada Library that we have very little to do with. There is a display of artifacts in the J. E. Church Fine Arts Bldg. Most of the hardware is in the museum at Carson City. W. Simons stated that he visited with the archivist regarding the 50th anniversary meeting, and he said he would be pleased to receive that material

that was being gathered together and it would be catalogued with the other Western Snow Conference material. There is a function this summer that is in honor of J. E. Church's 75th anniversary of his work.

The General Chairman asked B. Shafer for the 1981 meeting details. B. Shafer reported that the 1981 meeting will be held at St. George, Utah, April 14-16, a Tuesday, Wednesday and Thursday. Local arrangements will consist of B. Whaley and N. Deets. The theme will be Energy and Snow Viable Resources in the West. The call for papers will be by the 1st of August and the program committee will select the papers October 15 to November 1, the authors will be notified by December 1. There is a possibility that we might get up a raft trip prior to or after the meeting, but you will be notified.

There being no further old business, new business was called for. The time, etc., of the 1982 meeting was brought up. The General Chairman recommended that the four area chairmen meet before the general business meeting to discuss this and come forth with a recommendation.

There being no further business, the meeting was adjourned.

Respectfully submitted,

Robert T. Davis, Secretary

MINUTES OF THE BUSINESS MEETING
WESTERN SNOW CONFERENCE
Laramie, Wyoming

The General Chairman, Manes Barton, called to order the 48th annual business meeting of the Western Snow Conference April 17, 1980. The General Chairman asked the Secretary, R. Davis, to read the minutes of the 47th meeting. He stated that the minutes of the 47th meeting held in Sparks, Nevada were published in the Proceedings of that meeting and moved that they be adopted as published. Seconded by B. Thomas. Carried.

The General Chairman asked for the financial statement of the conference. R. Davis reported that the financial statement of the conference as audited by R. Benker and D. Felgenhauer was presented in detail to the Executive Committee and was summarized for the membership. R. Davis moved the acceptance of the financial statement. D. Pfankuch seconded. Carried.

The General Chairman asked that the two exhibitors, who were left, come forward and introduce themselves and their company. The General Chairman also named the two other exhibitors who had left.

The General Chairman asked that B. Shafer give the report of the Publications Committee. The new revised policy of the conference was presented and moved for adoption. (See policy as published in this Proceedings.) The motion was seconded and passed.

The General Chairman asked R. Brown to review the action of the Awards Committee for the record. The award of life membership was given to R. Enz, H. Matthai, R. Revell, N. Deets, B. Cox and H. Hafterson as well as outgoing General Chairman M. Barton. El Farsante was awarded to B. Shafer.

The General Chairman asked B. Goodison to give the report of the Metrification Committee. B. Goodison stated that their formal progress report was in the form of a technical paper that had been presented but they planned to continue testing and hoped to have a completed final report for the 1982 meeting.

The General Chairman asked for the report of the Historical Committee. (W. Simons report is printed in the minutes of the Executive Committee.)

The General Chairman asked for the report of the Wilderness Committee, but since all the members had departed he stated that the Legislative Action Committee which has looked at a couple of Wilderness Bills will cover that report with their own. B. Thomas, Chairman of the Legislative Action Committee reported. (See minutes of Executive Committee)

The General Chairman asked that the records show that B. Thomas is directed to work with the new General Chairman in the development of correspondence with the legislature.

The General Chairman asked D. Kuehl to report on a proposed constitutional amendment. (see minutes of Executive Committee). D. Kuehl moved the adoption of this amendment. W. Simons seconded. Carried.

The General Chairman asked for the report of the "Membership List Use" Committee chaired by J. Brown. C. McCullough reported for J. Brown (See report in the Executive Committee minutes) C. McCullough moved the acceptance of the Executive Committee decision. Seconded by D. Kuehl. Motion defeated. A recount was demanded and the motion passed.

R. Moreland was asked for the Church Award Committee report and the Archives Committee report. (See minutes of the Executive Committee)

The General Chairman asked that B. Brown give the report on the 1982, 50th anniversary meeting. A letter of invitation from J. Hannaford, South Pacific Area Chairman, and the entire South Pacific Area Committee was read and R. Brown moved that the 1982 meeting be held in Reno, Nevada. Seconded by D. Kuehl. D. Kuehl as Chairman of the North Pacific Area Committee spoke in favor of this motion. The motion passed.

The General Chairman then appointed the Chairmen of the four areas together with all of the South Pacific area committee as an Ad hoc committee to start the ball rolling on this most important meeting.

The General Chairman asked that the 1981 meeting committee make their report. B. Shafer made this report (See minutes of the Executive Committee)

There being no other old business the General Chairman made a brief report on the results of the Public Participation Meetings held by the SCS on the defederalization of the snow survey activity. The report has gone to Washington, DC but nothing has come of it as yet. The recommendation was to continue the program basically as is.

The General Chairman asked for any new business. There being none, the General Chairman expressed his appreciation for the help given him during the past two years, and adjourned the meeting.

Respectfully submitted,

Robert T. Davis, Secretary

ATTENDANCE ROSTER
WESTERN SNOW CONFERENCE
LARAMIE, WYOMING
APRIL 15 - 17, 1980

Alford, Donald	Laramie, Wyoming
Armstrong, Richard	Fort Collins, Colorado
Atkins, Roy R.	Aledo, Texas
Barton, Manes	Gresham, Oregon
Barnaby, Ian E.	Edmonton, Alberta
Beard, Jerry	Boise, Idaho
Beddome, Larry	Phoenix, Arizona
Bellamy, Robert E.	Loveland, Colorado
Bishop, Gary E.	Denver, Colorado
Boyne, H. S.	Fort Collins, Colorado
Brooks, Kenneth N.	St. Paul, Minnesota
Brown, Bob	Rosemead, California
Carroll, Tom	Minneapolis, Minnesota
Cary, Lawrence	Billings, Montana
Cooley, Keith	Boise, Idaho
Crook, Arthur	Beaverton, Oregon
Crow, Loren	Denver, Colorado
Cundy, Terrance	Richfield, Minnesota
Davis, Robert E.	Santa Barbara, California
Davis, Mr. & Mrs. Robert T.	Spokane, Washington
Deets, Neil	Vernal, Utah
Farnes, Phillip	Bozeman, Montana
Felgenhauer, Don	Spokane, Washington
Fetty, Carl	Beaverton, Oregon
Findlay, Bruce	Downsview, Ontario
Finke, Mark	Silver Spring, Maryland
Fischer, Mr. & Mrs. Robert	Denver, Colorado
Fox, Stan	Beaverton, Oregon
Frampton, Michael	Seal Beach, California
Froelich, Donald	Los Angeles, California
George, Tom	Portland, Oregon
Glynn, John	Ottawa, Ontario
Goodison, Barry	Downsview, Ontario
Gordon, Bill	Vancouver, Washington
Gordon, John	Vancouver, British Columbia
Gosink, Joan	Fairbanks, Alaska
Harder, Mr. & Mrs. Orrin	Oakland, California
Harlan, Bill	Lakewood, Colorado
Herdina, Glenn	Bozeman, Montana
Hoover, Marvin	Fort Collins, Colorado
Huffman, Don	Bozeman, Montana
Jairell, Mr. & Mrs. Robert	Laramie, Wyoming
Jones, Ken	Casper, Wyoming
Jordan, Darrell	Phoenix, Arizona
Kahan, Mr. & Mrs. Archie	Lakewood, Colorado
Kimmitt, Mr. & Mrs. Dale	Winnipeg, Manitoba
Kuehl, Don	Portland, Oregon
Kumar, Pradhan Sharad	Bhopal, India
Leavesley, George	Littleton, Colorado
Leupold, Mr. & Mrs. Norbert, Jr.	Beaverton, Oregon
McCullough, Charles	Sacramento, California
Marks, Danny	Santa Barbara, California
Marsden, Michael	Missoula, Montana
Martinelli, Pete	Fort Collins, Colorado
Meiman, Jim	Fort Collins, Colorado
Molnau, Myron	Moscow, Idaho
Moreland, Ron	Reno, Nevada

Morrison, Bob
Mustapha, A. Majeed
Pfankuch, Dale
Plam, Misha
Rechard, Mr. & Mrs. Paul
Reed, Kenneth R.
Richards, Bob
Scharfen, Greg
Schmidt, R. A.
Schumacher, Lynn
Shafer, Bernie
Simons, W. D.
Steppuhn, Harold
Stewart, Peter
Striffler, W. D.
Sturges, Mr. & Mrs. David
Sveum, Duane
Tabler, Mr. & Mrs. Ron
Thomas, Billy J.
Thomsen, Anton
Vadnais, Kenneth
Van Haveren, Bruce
Wallace, Mr. & Mrs. Jack
Warren, Stephen
Washichek, Mr. & Mrs. Jack
Whaley, Mr. & Mrs. Bob
White, Mr. & Mrs. Ron
Willis, Wayne
Wilson, Jack
Winter, Jim
Ziegler, Tim

Blackfoot, Idaho
Edmonton, Alberta
Lakewood, Colorado
Nederland, Colorado
Laramie, Wyoming
Portland, Oregon
Victoria, British Columbia
Boulder, Colorado
Fort Collins, Colorado
Great Falls, Montana
Arvada, Colorado
Mountain View, California
Saskatoon, Saskatchewan
Laramie, Wyoming
Fort Collins, Colorado
Laramie, Wyoming
Omaha, Nebraska
Laramie, Wyoming
Portland, Oregon
Fort Collins, Colorado
Silver Spring, Maryland
Lakewood, Colorado
Vancouver, British Columbia
Boulder, Colorado
Fort Collins, Colorado
Salt Lake City, Utah
Vancouver, British Columbia
Fort Collins, Colorado
Boise, Idaho
Laramie, Wyoming
San Diego, California