

## ASSOCIATION NEWS

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Willis B. Merriam, Adolph Hecht, and Rufus W. Kiser

### A Brief History of the Northwest Scientific Association: 1960-1972

#### 1960

The 1960 meeting of the Northwest Scientific Association was its thirty-fourth held jointly with the Idaho Academy of Science at the University of Idaho, Moscow, Idaho on December 28-29, 1960. The officers of the year were: John R. Roberts, Pacific University, President; Kenneth E. Hungerford, University of Idaho, Vice President; Willis B. Merriam, Washington State University, Secretary-Treasurer. The editor of *Northwest Science* was Joseph W. Mills, and associate editor, Kenneth E. Hungerford. The Trustees were: Earl F. Cook, University of Idaho; Royce G. Cox, Potlatch Forest, Inc.; Reuben A. Diettert, Montana State University; John W. Duffield, Greeley Forest Nursery; Henry P. Hansen, Oregon State College; Harry C. Harmsworth, University of Idaho; Robert E. Hosack, University of Idaho; Leo O. Hunt, Bureau of Land Management; Charles D. Leaphart, U.S. Forest Service; Robert S. MacLauchlan, Soil Conservation Service; T. J. O'Leary, S.J., Gonzaga University; W. Frank Scott, Washington State University; Richard B. Walker, University of Washington; A. E. Weissenborn, U.S. Geological Survey.

Robert W. Burns, Jr., Science Librarian at the University of Idaho gave the luncheon address entitled, "Machine Information Retrieval—A new game of button, button...." Approximately a hundred papers were scheduled for the two days including a symposium on "The Palouse" with topics ranging from its geology, history, and land use to its ecology. Section meetings and papers included botany-zoology, chaired by Lorin W. Roberts, University of Idaho; chemistry-physics, chaired by Andrew Noble, Pacific University; engineering, chaired by Melbourne L. Jackson, University of Idaho; forestry, chaired by Richard Bingham; geology-geography, chaired by Rolland R. Reid, University of Idaho; social science, chaired by Harry

Harmsworth, University of Idaho; soil and water conservation, chaired by E. W. Tisdale, University of Idaho.

#### 1961

The thirty-fifth annual meeting of the association was held on December 27-28, 1961, at the Davenport Hotel in Spokane. Officers for that year were: Kenneth E. Hungerford, College of Forestry, University of Idaho, President; Willis B. Merriam, Dept. of Geography, Washington State University, Vice-President; and Earl J. Larrison, Dept. of Biological Sciences, University of Idaho, Secretary-Treasurer. The Trustees were: Earl F. Cook, University of Idaho; Royce G. Cox, Potlatch Forest Inc.; Reuben A. Diettert, Montana State University; Henry P. Hanson, Oregon State University; Harry C. Harmsworth, University of Idaho; Robert E. Hosack, University of Idaho; Leo O. Hunt, Bureau of Land Management; Robert S. MacLauchlan, Soil Conservation Service; W. Frank Scott, Washington State University; and Richard B. Walker, University of Washington. New members on the Board of Trustees were: George H. Barnes, Oregon State College; Richard T. Bingham, North Idaho Forest Genetics Center, Moscow, Idaho; Bruce V. Ettling, Washington State University; David G. Fellin, USFS, Missoula, Montana; J. Hoover Mackin, University of Washington. Honorary Trustees were: Edwin F. Heacox, Weyerhaeuser Timber Company, Tacoma, Washington; The Rev. Edmund Morton, Gonzaga University, Spokane; W. H. Rathert, J. Neils Lumber Company, Portland, Oregon.

General Association speakers were Dr. Winslow R. Hatch, Coordinator, Clearinghouse of Studies on Higher Education, Office of Education, Department of Health, Education and Welfare, Washington, D.C., who spoke on, "The

Quest for Quality" and Dr. Henry W. Smith, Professor of Soils, Department of Agronomy, Washington State University, who led the Symposium on "Effective Communication of Scientific Information" with a paper on "Illustrative Material for Scientific Talks."

Eight Sections had programs, and 91 papers were presented under the coordination of Dr. C. Gardner Shaw, Dept. of Plant Pathology, Washington State University.

Program contributors included Maurice T. James, Richard W. Dingle, E. F. Wicker and Willis B. Merriam, Washington State University; Charles J. Flora, William J. Dittrich, Walter J. Sanders and Arnold M. Lahti, Western Washington State College; John T. Young and Harry Cannon, University of British Columbia, Canada; R. W. Kiser, Centralia College; Robert D. Bratz, College of Idaho; Vera Louise Engstrom-Heg, Idaho State College; I. T. Myres and Randall E. Brown, General Electric Company; Vernon S. Robinson and William R. Marr, Potlatch Forests Inc., Lewiston, Idaho; James Dick, Weyerhaeuser Timber Company, Centralia, Washington; Philip C. Johnson, Intermountain Forest and Range Experiment Station; Carl G. Krueger, Coeur d'Alene National Forest; Hans Riekerk, University of Washington; Jerry F. Franklin and Denis P. Lavender, Oregon State University; Ewart M. Baldwin and Carl L. Johannessen, University of Oregon; Verle Kaiser, USDA Soil Conservation Service, W. H. Baker, W. R. Parish and R. R. Furgason, University of Idaho.

Honorary Life Members named at the annual banquet were Leona M. Sundquist, James C. Evenden and Dwight S. Jeffers. The outstanding scientists honored by the association were Homer J. Dana, C. P. Ross, and A. L. Anderson.

The number of members in the Association was 348 and the registered attendance at the annual meeting 155.

## 1962

The thirty-sixth meeting of the Northwest Scientific Association was held on December 27-28, 1962, at Western Washington State College, Bellingham, Washington. The officers for 1962 were: Willis B. Merriam, Washington State University, President; William H. Baker, Department of Biological Sciences, University of Idaho, Vice-President; Earl J. Larrison, Department of

Biological Sciences, University of Idaho, Secretary-Treasurer. The Trustees were: George H. Barnes, Oregon State University; Richard T. Bingham, North Idaho Forest Genetics Center; Royce C. Cox, Potlatch Forests Inc.; Reuben A. Diettert, Montana State University; Bruce V. Ettling, Washington State University; David G. Fellin, Forest Insects Laboratory, USFS; Henry P. Hanson, Oregon State University; Robert E. Hosack, University of Idaho; W. Frank Scott, Washington State University; Richard B. Walker, University of Washington. New Trustees were: H. Kenneth Hossom, Eastern Washington State College, C. Gardner Shaw, Washington State University; George Neff, U.S. Bureau of Reclamation; and Paul H. Sunset, Washington State University. The Honorary Trustees were: F. A. Gilfillan, Dean Emeritus of Science, Oregon State University; James L. Jarrett, President, Western Washington State College; and J. R. Simplot, Boise, Idaho.

The General Association Speaker was James S. Bethel, Associate Dean, Graduate School, University of Washington, who spoke on, "The Role of the National Science Foundation in the Support of Science." A General Symposium on "Cycling of Mineral Nutrients in Ecological Systems," was led by Dr. Stanley P. Gessel, College of Forestry, University of Washington.

Eight Sections had meetings with a total of 107 papers presented. The program Chairman was Dr. Richard B. Walker, Botany Department, University of Washington.

Others prominent in section programs included R. B. Walker, Mark Behan, Hans Riekerk, Wayne Swank, and Julian D. Barksdale, University of Washington; Bruce V. Ettling, Roald Fryxell, Roger C. Brown, and Willis Merriam, Washington State University; John Shrader, Central Washington State College; Henry P. Hanson, W. K. Ferrell and Denis P. Lavender, Oregon State University; Richard P. Pharis, Pacific Northwest Forest and Range Experiment Station; Lee O. Hunt, Bureau of Land Management, Winston, Oregon; John W. Duffield, Industrial Forest Association; A. Kazak, Philip G. Haddock, Wilbert R. Danner and Rex Boughton, University of British Columbia; Otis W. Freeman, Eastern Washington State College; Dee Molenaar, Washington State University; E. E. Tylutki, Kenneth E. Hungerford, Craig MacPhee and Earl J. Larrison, University of Idaho; Robert K.

Campbell, Weyerhaeuser Co.; R. E. Brown, General Electric Co., Hanford; James Habeck, Montana State University; William G. Wilson, Whitworth College; William Bender, Arnold M. Lahti, Western Washington State College; Rufus W. Kiser, William A. Batie, Centralia Community College.

Honorary Life Members named at the annual banquet were Dr. Ethel P. Westwood, J. H. Christ, and Homer J. Dana. No outstanding scientist was named.

The Secretary reported a membership of 325. Number of papers presented at the meeting was 109.

### 1963

The thirty-seventh annual meeting of the Northwest Scientific Association was held on December 27-28, 1963, at the Davenport Hotel in Spokane, Washington. The officers of the Association were William H. Baker, Department of Biological Sciences, University of Idaho, President; Richard B. Walker, Botany Department, University of Washington, Vice President; Bruce V. Ettling, Washington State University, Secretary-Treasurer.

The Trustees were: George H. Barnes, School of Forestry, Oregon State University; Richard T. Bingham, North Idaho Forest Genetics Center; Royce C. Cox, Potlatch Forests Inc., Lewiston, Idaho; Reuben A. Diettert, Botany Department, Montana State University; David G. Fellin, Forest Insect Laboratory, USFS; H. Kenneth Hossom, Social Sciences Department, Eastern Washington State College; Earl J. Larrison, Department of Biological Sciences, University of Idaho; George Neff, U.S. Bureau of Reclamation; W. Frank Scott, Geology Department, Washington State University; C. Gardner Shaw, Plant Pathology Department, Washington State University; Paul H. Sunset, Chemistry Department, Oregon State University. New Trustees were: William K. Ferrell, School of Forestry, Oregon State University; Phillip G. Haddock, Faculty of Forestry, University of British Columbia; Frank Nicol, Eastern Washington State College. Honorary Trustees were James H. Jensen, President, Oregon State University; Boyd Rasmussen, Missoula, Montana and George Allen, Weyerhaeuser Company.

The General Association speaker was Dr. Helmut K. Buechner, Professor of Zoology, Washington State University on, "The Significance of Territorial Behavior in an African Antelope." Dr. Adolph Hecht was the Program Chairman. Ninety papers were presented at the eight section meetings. The following sections were represented: Botany-Zoology, Chemistry-Physics-Mathematics, Engineering, Forestry, Geology-Geography, Science Education, Social Sciences and Soil and Water Conservation. The Association membership was 326 and the registered attendance at the annual meeting, 180.

Prominent speakers taking part in the Section meetings were: Bruce V. Ettling, Mark F. Adams, Richard W. Dingle, Willis B. Merriam, Roald Fryxell, and Ben Roche, Washington State University; Richard B. Walker, Ronald E. Brown, V. Standish Mallory and Julian D. Barksdale, University of Washington; Ernest H. Lund, and Ewart M. Baldwin, University of Oregon; Martin R. Kaatz, Central Washington State College; Walter Highberg, U.S. Weather Bureau; Bob Hemstreet, Washington State Department of Game; K. L. Walters, U.S. Geological Survey; Orlo Krauter, Soil Conservation Service; William P. Barnes, University of Idaho; E. J. Davis, Gonzaga University; C. J. Diers, Weyerhaeuser Company Research Center; Raymond J. Boyd Jr., William Beaufait, Intermountain Forest and Range Experiment Station; Louis L. Walters, University of British Columbia; David A. Stephenson, University of Nevada; James M. Ford, Skagit Valley Community College; William A. Long, Washington State Department of Natural Resources; Sister Marian Catherine, Holy Names Academy; Rufus W. Kiser, Centralia Community College; Richard J. Rector, Northern Pacific Railway; Jerry F. Franklin, James M. Trappe, Robert F. Tarrant, Kenneth W. Kruger, Pacific Northwest Forest Range Experiment Station; James R. Habeck, L. C. Merriam Jr., Montana State University; William G. Wilson, Whitworth College; Randall E. Brown, General Electric Co.; Stanley N. Hersch, Robert Pfister, Northern Forest Experimental Station; J. Stewart Lowther, University of Puget Sound.

Honorary Life Membership was granted to Henry P. Hansen, Dean of the Graduate School, Oregon State University and to Willis B. Merriam, Department of Geography, Washington State University.

There was no outstanding scientist named for the year 1963. It was with great regret the passing of Professor Edwin H. Steffen, long associated with Forestry at Washington State University, was noted.

## 1964

There was no regular meeting in 1964. By action of the Trustees and the Executive committee the meetings were changed from the Christmas vacation in December to an early spring meeting to be held in March or April. The elected officers for 1964 carried over until the spring meeting in 1965. The officers of the Association for 1964 were: Francis J. Schadegg, Eastern Washington State College, President; Adolph Hecht, Washington State University, Vice President; Bruce V. Ettling, Washington State University, Secretary-Treasurer. The Trustees were: Royce C. Cox, Potlatch Forest Inc.; Reuben A. Diettert, Department of Botany, Montana State University; William J. Dittrich, Department of Physics, Western Washington State College; William K. Ferrell, School of Forestry, Oregon State University; Philip G. Haddock, Faculty of Forestry, University of British Columbia; H. Kenneth Hossom, Department of Social Sciences, Eastern Washington State College; George Neff, U.S. Bureau of Reclamation, Ephrata, Washington; Frank Nicol, Department of Biology, Eastern Washington State College; C. Gardner Shaw, Department of Plant Pathology, Washington State University; and Paul H. Sunset, Division of Industrial Research, Washington State University.

New Trustees were: Ewart M. Baldwin, Department of Geology, Eugene, Oregon; Randall E. Brown, Pasco, Washington; Phillip C. Johnson, U.S. Forest Service; Rufus Kiser, Centralia College; and John Schwendiman, Department of Agronomy, Washington State University. The Honorary Trustees were: James E. Brooks, President, Central Washington State College; Vernon H. Cheldelin, Department of Chemistry, Oregon State University; and A. E. Weissenborn, U.S. Geological Survey.

## 1965

The thirty-eighth Annual Meeting of the Northwest Scientific Association was held jointly with the Oregon Academy of Science April 9-10, 1965,

at the Sheraton Motor Inn, Portland, Oregon. The Association officers of 1964 carried over in 1965 to the annual meeting. The elected officers for 1966 were Adolph Hecht, Washington State University, President; Rex Boughton, University of British Columbia, Vice President; Bruce V. Ettling, Washington State University, Secretary-Treasurer. Editor: Joseph W. Mills, Washington State University.

The Trustees were: Ewart M. Baldwin, University of Oregon; Randall E. Brown, Pasco, Washington; Royce C. Cox, Potlatch Forests Inc.; Reuben A. Diettert, Montana State University; William Dittrich, Western Washington State College; William K. Ferrell, Oregon State University; Philip G. Haddock, University of British Columbia; Rufus Kiser, Centralia College; Frank Nicol, Eastern Washington State College; John Schwendiman, Washington State University. New Trustees for 1965 were: W. R. Beaufait, U. S. Forest Service; Henry P. Hansen, Oregon State University; William R. Pierce, Montana State University; John R. Roberts, Pacific University; and Edmund E. Tylutki, University of Idaho.

The Honorary Trustees were George Brunzell, Washington Water Power Company, Spokane, Washington; Sherwood Fawcett, Battelle Northwest; Robert Johns, Montana State University.

Dean Henry P. Hansen acted as Moderator on a Symposium on the Columbia River Gorge. Quentin Clarkston, Biology Department, Portland State College, led a Field Trip to the Columbia River Gorge in the vicinity of Multnomah Falls.

Program Chairman was Frank Nicol. One-hundred four papers were read before the six section meetings.

Additional prominent names associated with the program included, William J. Dittrich, Arnold Lahti, Western Washington State College; Ewart M. Baldwin, LeRoy Detling, University of Oregon; Robert M. Storm, Kenneth L. Gordon, D. P. Lavender, Oregon State University; Jon Michael Smith, Seattle University; Samuel Arthur, University of Alberta; Charles B. Margach, Pacific University; Norman Anderson, University of Puget Sound; Jack A. Ellingson, Pacific Lutheran University; Roger Olstad, University of Washington; Willis B. Merriam, Washington State University; William G. Wilson, Whitworth College; Philip G. Haddock, University of British Columbia; Daniel Chapelle,



Kenneth W. Kruger, James W. Barrett, Jerry Franklin, U.S. Forest Service, Pacific Northwest Forest and Range Experiment Station; Ronald E. Schmidt, Intermountain Forest and Range Experiment Station; William A. Hunt, Montana State College, Bozeman, Montana; William C. Poulsen, Utah State University; Quentin D. Clarkson, James A. MacNab, Portland State College; James R. Habeck, Montana State University; Earl J. Larrison, University of Idaho; Charles W. Quaintance, Eastern Oregon College; George E. Neff, Bureau of Reclamation; William A. Long, Washington State Department of Natural Resources; Wakefield Dort Jr., University of Kansas.

An Honorary Life Membership was awarded to F. A. Gilfillan. There were no outstanding scientists named for the year 1965. The Secretary reported 320 members in the Association with an annual meeting attendance of one-hundred fifty-one.

A research Grant-in-Aid was awarded to Edward Taylor for radiocarbon dating of plant remains from central Oregon.

The association resumed putting news items in *Northwest Science*. At the October 1965 meeting of the officers and trustees the Hansen report on constitutional changes (first presented in May 1965) was reviewed along with the comments recorded in the minutes of May 1964. The motion to adopt the constitutional changes was seconded and carried. The proposed changes were published in *Northwest Science*.

## 1966

The thirty-ninth Annual meeting of the Northwest Scientific Association was held jointly with the Montana Academy of Sciences annual meeting on April 15-16, 1966 at the Florence Motor Hotel, Missoula, Montana. The officers of the Association for 1966 were: Adolph Hecht, Washington State University, President; Rex Boughton, University of British Columbia, Vice President; Bruce V. Ettling, Washington State University, Secretary-Treasurer. The Editor of *Northwest Science* was Joseph W. Mills, Washington State University, and the Associate Editor was Edmund E. Tylutki, University of Idaho. Trustees were Ewart Baldwin, University of Oregon; W. R. Beaufait, U. S. Forest Service; Randall E. Brown, Battelle Memorial Institute; Royce C. Cox,

Potlatch Forests Inc.; Henry P. Hansen, Oregon State University; Rufus W. Kiser, Centralia College; William R. Pierce, University of Montana; John R. Roberts, Pacific University; John Schwendiman, Washington State University.

New Trustees: James Dick, Weyerhaeuser Company; Reuben Diettert, University of Montana; William Dittrich, Western Washington State College; Frank Nicol, Eastern Washington State College; Richard Walker, University of Washington. Honorary Trustees: C. Clement French, Washington State University; Herbert McKean, Potlatch Forests Inc.

The Annual Banquet Speaker was Harold C. Urey, Nobel Laureate, University of California, San Diego, California, who spoke on, "The Origin of Life." The ten section meetings were coordinated by LeRoy H. Harvey, University of Montana, Program Chairman.

An open house at the Northern Forest Fire Laboratory of the U.S. Forest Service was led by William R. Beaufait.

A representative list of the authors of papers would include: Geoffrey C. Foote, Dennis W. Woodward, Stephen F. Arno, Mark Behan, L. C. Merriam Jr., Donald L. Lodmell, University of Montana; John W. Robinson, C. J. D. Brown, William Johnson, Corale Brierley, A. William Miller, Montana State University; Verle G. Kaiser, S. F. Peterson, Soil Conservation Service; Randall E. Brown, Battelle Northwest; William H. Baker, University of Idaho; Stanley R. Davidson, Western Montana College; W. J. Dittrich, Western Washington College; Richard H. Clem, Whitman College; Rufus W. Kiser, Centralia College; John S. Shrader, Central Washington State College; I. W. Herrick, Mark F. Adams, Willis B. Merriam, Washington State University; Richard B. Walker, David R. M. Scott, K. E. Fry, William A. Long, University of Washington; Michael Newton, Oregon State University; R. V. Boughton, Donald Alford, University of British Columbia; Jerry F. Franklin, James M. Trappe, Robert Pfister, David G. Fellin, Richard F. Schmidt, David P. Lowery, U.S. Forest Service; William J. Hill, North Dakota Game and Fish Department; Harry W. Anderson, Washington State Department of Game.

One-hundred and thirty-five papers were presented before a registered attendance of one-hundred and ninety-two. Reuben Diettert,

G. Brooks King, N. S. Golding, J. L. Culbertson, Herman Deutsch and G. E. Goodspeed were awarded Honorary Life Memberships in the Association.

The Northwest Scientific Association honored R. A. V. Raff as the Outstanding Scientist of the Year.

We were saddened by the passing of President Rex Boughton, who died of a stroke at his home in Vancouver October 16, 1966. Vice President Julian Barksdale, University of Washington, served as acting president for the remainder of Rex Boughton's term.

## 1967

The fortieth Annual Meeting of the Northwest Scientific Association was held at Washington State University, Pullman, Washington on April 14-15, 1967. The officers of the Association elected for 1967 were Rex Boughton, University of British Columbia, President; Julian Barksdale, University of Washington, Vice President; Bruce V. Ettling, Washington State University, Secretary-Treasurer. Owing to Rex Boughton's death in October 1966, Vice President Barksdale served as acting president for the remainder of Boughton's term.

Joseph W. Mills, Washington State University, was the Editor of *Northwest Science* and Edmund E. Tylutki, University of Idaho, was Associate Editor.

The Trustees were: W. R. Beaufait, U.S. Forest Service; Royce C. Cox, Potlatch Forests Inc.; James Dick, Weyerhaeuser Co.; Reuben Diettert, University of Montana; William J. Dittrich, Western Washington State College; Henry P. Hansen, Oregon State University; Rufus W. Kiser, Centralia College; Frank Nicol, Eastern Washington State College; William R. Pierce, University of Montana; John R. Roberts, Pacific University; Edmund E. Tylutki, University of Idaho; and Richard Walker, University of Washington.

New Trustees were: Leonard C. Johnson, Washington State University; Ernest Lund, University of Oregon; J. Harry G. Smith, University of British Columbia.

The Honorary Trustees nominated by the Board of Trustees and elected by the vote of the Association were: James Brooks, Central Washington State College; Eugene W. Greenfield,

Washington State University; and Ernest Hartung, University of Idaho.

The speaker for the Annual Banquet was David A. Rahm, Department of Geology, Washington State University, who spoke on "Geology from the Air." There were one-hundred and eighty papers presented at the seven section meetings. Jerry F. Franklin, U.S. Forest Service, Corvallis, Oregon was the Program Chairman. The registered attendance was two-hundred and seventy-five and the Association members numbered three-hundred and seventy. At the October Trustees meeting the Secretary-Treasurer, Bruce V. Ettling, reported the page charge for publication in *Northwest Science* is working well and that the editors can promise publication in six months instead of eighteen.

The Symposium on the "Biology of Alder," co-chaired by Jerry F. Franklin and James M. Trappe, U.S. Forest Service, attracted a number of international speakers. Among these were Saburo Murai, Morioka, Japan; Ilmari Schalin, University Helsinki, Finland; Koichi Yamaya, Morioka, Japan; C. Rodriguez-Barrueco, University of Glasgow, Scotland. Other speakers of note on the Alder Symposium included: Fred Johnson, University of Idaho; Robert H. Ruth, U.S.F.S.; B. A. El Hassan and Michael Newton, Oregon State University; William W. Mitchell, Alaska Agricultural Experiment Station, F. C. Ugolini, University of Washington; Robert F. Tarrant, U.S.F.S.; W. B. Bollen, U.S.F.S.; S. P. Gessel, University of Washington; Jack D. Rogers, Washington State University; Robert L. Furniss, U.S. Forest Service; J. Harry G. Smith, University of British Columbia; Richard L. Williamson, U.S. Forest Service; Kenneth J. Turnbull, University of Washington. Other prominent speakers in the general section meetings were: J. Stewart Lowther, University of Puget Sound; William H. Brooks, Gonzaga University; Dale A. Thornburgh, Humboldt State College; Ronald C. Phillips, Seattle Pacific College; W. H. Johnson and Richard Clem, Whitworth College, Spokane; Lorin W. Roberts, Earl J. Larrison, J. Homer Ferguson, Duane S. Andrews, and W. R. Greenwood, University of Idaho; Eugene V. Elliot, Eastern Montana College; Arnold M. Lahti, Western Washington State College; Wayne D. Johnstone, University of British Columbia; Kent R. Richards, Central Washington State College; Vernon S. Robinson, Potlatch Forest Industries,

Lewiston, Idaho; Randall Brown, Battelle Northwest, Richland; H. J. Dahlke, Dennis P. Lavender, Oregon State University; Ernest Lund, University of Oregon, N. Higinbotham, Bruce V. Ettling, J. N. Johnson, Roald Fryxell, Willis B. Merriam, Washington State University; William Long, Department of Natural Resources; Richard B. Walker, Kenneth Reed, University of Washington; Russell E. Clark, Tacoma Community College; Gordon J. Price, Soil Conservation Service.

Honorary Life Membership was granted to C. Clement French, President-Emeritus, Washington State University and S. Vandecaveye, Emeritus, Washington State University, Soil Conservationist.

The outstanding Scientist Awards were made to Grace Howard, University of Washington, and E. S. E. Hafez, Washington State University.

## 1968

The forty-first annual meeting of the Northwest Scientific Association was held at Central Washington State College March 22-23, 1968. The officers of the Association were Julian Barksdale, University of Washington, President; Bruce V. Ettling, Randall E. Brown, Battelle Northwest, Vice President; Glenn Deitschman, U.S. Forest Service, Secretary-Treasurer; Joseph W. Mills, Washington State University, Editor of *Northwest Science*. The Trustees were: James Dick, Weyerhaeuser Company; Reuben A. Diettert, University of Montana; William J. Dittrich, Western Washington State College; Leonard C. Johnson, Washington State University; Rufus W. Kiser, Centralia College; Ernest Lund, University of Oregon; Frank Nicol, Eastern Washington State College; William R. Pierce, University of Montana; J. Harry G. Smith, University of British Columbia; Richard Walker, University of Washington. New Trustees were: Aaron Baker, Washington State University Western Washington Research Center; Ewart Baldwin, University of Oregon; Ray Broderson, Oregon College of Education; John Shrader, Central Washington State College; Roderick Sprague, University of Idaho.

Ronald Paul, Battelle, Northwest; Emerson Shuck, Eastern Washington State College; and Glenn Terrell, Washington State University, Pullman, Washington, were named as Honorary Trustees.

The General Session speaker at the annual Banquet was Donald R. Johnson, Pacific Northwest Regional Director, U.S. Department of Interior, Fish and Wildlife Service, whose address was "The Outlook for Columbia River Salmon."

The Program Chairman was Roger G. Olstad, University of Washington.

A joint session of the Botany-Zoology and Soil and Water Conservation sections featured a symposium on "The Biological Effects of Pulp Liquor Wastes in Puget Sound." Botany sections were chaired by D. J. Wort and Vladimir J. Krajina, University of British Columbia. Zoology sessions were chaired by J. Homer Ferguson and by Fred W. Rabe, University of Idaho. The Chemistry-Physics sessions were chaired by E. S. Murphy and H. S. Habib, Central Washington State College. Dale R. Comstock of Central Washington State College chaired the Mathematics session. Two of the Forestry sessions were chaired by Robert D. Pfister, U.S. Forest Service, and two other Forestry sessions were under the chair of Michael A. Newton of Oregon State University. William A. Long of the U.S. Forest Service chaired two of the Geology-Geography section meetings, and a third session was under the chair of Edward P. Klucking of Central Washington State College. The Science Education section included three sessions, two chaired by Roger G. Olstad of the University of Washington, the third by Harold C. Jorgensen of Portland State College. The Social Sciences section had three sessions, all chaired by Jane Record of Portland State College. A. S. Baker of Western Washington Research and Extension Center chaired the joint symposium of the Soil and Water Conservation and Botany-Zoology sections, "The Biological Effects of Pulp Liquor Wastes in Puget Sound," and he also chaired one of the specific Soil and Water Conservation sessions. A third Soil and Water Conservation session was chaired by H. H. Wegeleben of the Soil Conservation Service.

The Secretary reported the membership of the Association at three-hundred and fifty-two and the registered attendance at the annual meeting at two-hundred and seventy. One-hundred and seventy-eight papers were presented.

Honorary Life Membership was granted to Adolph Hecht, Botany Department, Washington State University and to William H. Baker, Botany Department, University of Idaho.

Outstanding Scientist awards went to Mark F. Adams, Washington State University; E. Roy Tinney, Washington State University; and J. Hoover Mackin, University of Washington.

## 1969

The forty-second Annual Meeting of the Northwest Scientific Association was held at Eastern Washington State College March 21-22, 1969. Elected officers of the Association were: Randall E. Brown, Battelle Northwest, President; James Trappe, U.S. Forest Service, Vice President; Glenn Deitschmann, U.S. Forest Service, Secretary Treasurer. The Editor of *Northwest Science* was Joseph W. Mills, Washington State University. The Trustees were: Aaron Baker, Western Washington Research Center; Ewart Baldwin, University of Oregon; Jerry F. Franklin, U.S. Forest Service; Leonard Johnson, Washington State University; Rufus W. Kiser, Centralia College; Ernest Lund, University of Oregon; William Pierce, University of Montana; John Shrader, Central Washington State College; J. Harry G. Smith, University of British Columbia; Roderick Sprague, University of Idaho.

The Trustees were: William Bliss, Edmonds Public Schools; Alfred Halvorson, Washington State University; Martin Kaatz, Central Washington State College; Howard Stien, Whitworth College; D. J. Wort, University of British Columbia.

Honorary Trustees were: Phillip Briegleb, U.S. Forest Service, Portland, Oregon; and Henry Hansen, Oregon State University, Corvallis, Oregon.

The Washington Entomological Society met with the Northwest Scientific Association and contributed five papers, presented at a Friday afternoon session.

Speakers at the General session banquet were: Roald Fryxell and Richard Daugherty of Washington State University. Their topic was, "The Archaeology and Geochronology of the Marmes Rockshelter."

Chairmen of the Symposium, "Columbia River Basalts," were: Ernest Gilmour, Eastern Washington State College, Chairman; and Dale Stradling, Eastern Washington State College, Vice Chairman. A total of thirty papers were presented on this timely symposium.

At the regular section meetings one-hundred ninety-two papers were presented, setting a new

record for papers. The Program Chairman was William R. Beaufait, USFS Intermountain Forest and Range Experiment Station, Missoula, Montana. The registered attendance was the highest in the history of the Association, four-hundred and thirty-four. Prominent speakers reading papers at the Section meetings were: A. C. Waters, University of California; Larry Anderson, Whitman College; Richard P. Pharis, University of Calgary, Canada; Dale Thornburg, Humboldt State College; Hugh W. Johnson, Whitworth College; P. L. Wagner, Simon Fraser University; James Trappe, William G. Morris, Pacific Northwest Forest and Range Experiment Station; Harry W. Anderson, Washington State Department of Natural Resources; Randall E. Brown, W. H. Rickard, Battelle Northwest; Aaron Goldman, Gonzaga University; William Beaufait, Intermountain Forest and Range Experiment Station; W. A. Long, U.S. Forest Service; J. W. Bingham, R. C. Newcomb, U.S. Geological Survey; D. H. Henning, Eastern Montana College; D. C. Cheney, Utah State University; D. J. Wort, J. G. Severson, Jr., J. Harry G. Smith, University of British Columbia; C. D. Armsbury, University of Oregon; J. Homer Ferguson, Earl J. Larrison, Loren W. Roberts, University of Idaho; Leonard Levine, Pacific University; B. L. Crowe, Michael Newton, Thomas R. Tanner, D. D. Simons, Oregon State University; R. W. Diettert, R. W. Behan, W. L. Waters, University of Montana; Norman Johnson, D. R. Horner, R. B. Powers, Eastern Washington State College; LeVon Balzer, T. H. Spratlen, G. F. Drake, Western Washington State College; Janet Larson, T. B. Bowen, Central Washington State College; Chris Cramer, University of Puget Sound; Thomas M. Hinckley, Richard B. Walker, Kenneth L. Reed, University of Washington; Robert F. Harwood, Bruce V. Ettling, J. E. Carlson, A. R. Halvorson, Washington State University.

Honorary Life membership was granted to Francis Schadeegg, Eastern Washington State College, Cheney, Washington. The outstanding scientists of the year honored by the Association were: Helen Gilkey, Oregon State University; and C. Leo Hitchcock, University of Washington.

The death of Dr. John R. Roberts, longtime member and trustee, and Association president in 1960, was reported.



The forty-third annual meeting of the Northwest Scientific Association was held at the Marion Motor Hotel, Salem, Oregon on March 27-28, 1970. The host institution was Oregon State University, but owing to conflicting meetings the Northwest Scientific Association met at Salem. The Officers of the Association for 1970 were: James Trappe, U.S. Forest Service, President; Lorin Roberts, University of Idaho, Vice President; Glenn Deitschmann, U.S. Forest Service, Moscow, Idaho, Secretary-Treasurer; The Editor of *Northwest Science* was Joseph W. Mills, Washington State University.

The Trustees were: Aaron Baker, Washington State University Western Washington Research Center; Ewart Baldwin, University of Oregon; William Bliss, Edmonds Public Schools; Jerry F. Franklin, U.S. Forest Service; Alfred Halvorson, Washington State University; Roderick Sprague, University of Idaho; Howard Stein, Whitworth College; D. J. Wort, University of British Columbia.

The New Trustees appointed by the Board were: Ray Broderson, Oregon College of Education, Monmouth, Oregon; Ernest Gilmour, Eastern Washington State College; Daniel Henning, Eastern Montana College; Robert Pfister, U.S. Forest Service; Kenneth Waldroff, Division of Continuing Education, Salem, Oregon. Honorary Trustees: Ernest Hartung, University of Idaho; Adolph Hecht, Washington State University; Richard Walker, University of Washington.

A Symposium on "Natural Areas—Needs and Opportunities," was coordinated by William Dittrich, Western Washington State College. Chairmen for the three sessions were: Vladimir Krajina, University of British Columbia; D. H. Henning, Eastern Montana College; and Fred Overly, Bureau of Outdoor Recreation, Seattle, Washington. Herschel Pendell, Oregon State University, served as the Program Director for the eight sections presenting papers.

The Annual Banquet Speakers were the Honorable Robert W. Straub, Treasurer, State of Oregon, who spoke on "Preservation of Natural Landscapes and Environmental Quality, The State Outlook," and the Honorable Thomas S. Foley, U.S. House of Representatives, State of Washington whose address was, "Preservation of Natural Landscapes and Environmental Quality—The Federal Outlook."

Other notable speakers presenting papers on the section meetings were: R. B. Walker, D. R. M. Scott, Grant Sharpe, A. R. Kruckenberg, and F. C. Ugolini, University of Washington; D. P. Lavender, Thomas R. Tanner, Oregon State University; Ernest Lund, University of Oregon; Ronald J. Taylor, Western Washington State College; W. Greene, Eastern Washington State College; D. J. Wort, M. D. Meagher, University of British Columbia; Lorin W. Roberts, Earl J. Larrison, D. R. Johnson, J. H. Ferguson, University of Idaho; H. L. Cook, Southern Oregon College; Reuben A. Diettert, Mark J. Behan, W. R. Pierce, University of Montana; J. W. Padden, University of Victoria; Jacqueline L. Fick, Whitworth College; James M. Trappe, U.S. Forest Service; Royce G. Cox, Vernon S. Robinson, Potlatch Forest Inc.; L. Stewart Lowther, University of Puget Sound; Bruce V. Ettling, Mark F. Adams, Washington State University; Randall E. Brown, W. H. Rickard, Battelle, Northwest; George W. Douglas, University of Alberta; Edgar F. Kleiner, University of Nevada; Jack K. Winjum, Weyerhaeuser Company; A. E. Weissenborn, U.S. Geological Survey; Richard N. Pierson, Washington State Department of Natural Resources; Keith R. Shea, Donald M. Knutson, U.S.F.S. Pacific Southwest Forest and Range Experiment Station; William R. Beaufait, Robert D. Pfister, David G. Felin, U.S.F.S. Intermountain Forest and Range Experiment Station; William G. Morris, G. W. Swank, T. D. Anderson, U.S.F.S. Pacific Northwest Forest and Range Experiment Station; Paul Zinke, University of California; R. W. Kiser, Centralia College; A. C. Oehlschlager, L. A. Boland, Simon Fraser University; Philip C. Dumas, Bernard L. Martin, Central Washington State College.

Honorary Life Membership was granted to Joseph W. Mills, Robert R. Tarrant and Bruce V. Ettling.

Outstanding Scientists named by the Northwest Scientific Association for the year 1970 were: Jerry Franklin, U.S. Forest Service, Corvallis, Oregon; Stanley Williamson, Science Ed., Oregon State University; Vladimir Krajina, University of British Columbia, and Rexford Daubenmire, Washington State University.

The Secretary reported a near record membership of four-hundred and seventy-one, exceeded only by 1940 and 1941. Registered attendance at the annual meeting was two-hundred and

seventy-seven and the number of papers presented one-hundred and seventy-seven.

## 1971

The forty-fourth Annual meeting of the Northwest Scientific Association was held jointly with the Idaho Academy of Science and the Washington State Entomological Society at the University of Idaho, April 16-17, 1971. The officers of the Association were: Lorin Roberts, University of Idaho, President; William Dittrich, Western Washington State College, Vice President; Glenn Deitschmann, U.S. Forest Service, Secretary Treasurer. After many successful years as Editor of *Northwest Science*, Joseph W. Mills, Washington State University, turned over the Editorship to Bruce V. Ettling of the same institution.

The Trustees for 1971 were: William Bliss, Edmonds Public Schools; Ray Broderson, Oregon College of Education; Jerry F. Franklin, U.S. Forest Service; Ernest Gilmour, Eastern Washington State College; Alfred Halvorson, Washington State University; Daniel Henning, Eastern Montana College; Robert Pfister, U.S. Forest Service, Howard Stien, Whitworth College; Kenneth Waldroff, Division of Continuing Education, Salem, Oregon; D. J. Wort, University of British Columbia. The New Trustees appointed to the board were: Levon Balzer, Western Washington State College; Donald Horner, Eastern Washington State College; Otis Maloy, Washington State University; Bernard Martin, Central Washington State College; Alfred Slinkard, University of Idaho.

The Honorary Trustees designated by the Association were: Charles Flora, Western Washington State College; Marshal T. Huntting, Washington State Division of Mines and Geology, Olympia, Washington; Edward Lindaman, Whitworth College, Spokane, Washington.

The Officers of the Idaho Academy of Science were: President, Edmund Tylutki, University of Idaho; Vice-President, Joseph B. Spulnick, Boise State College, Boise; Secretary, Mary Ann Fisher, College of Southern Idaho, Twin Falls; Treasurer, Elmer K. Raunio, University of Idaho.

The Officers of the Washington State Entomological Society were: President, Alan Berryman, Washington State University; President-Elect, Wyatt Cone, W.S.U. Irrigated

Agriculture Research and Extension Center, Prosser, Washington; Secretary/Treasurer, Carl A. Johansen, Washington State University.

The Program Chairman was Roderick Sprague, Department of Sociology and Anthropology, University of Idaho, and the Program Editor was Earl J. Larrison, Department of Biological Sciences, University of Idaho.

A record number of papers, two-hundred and ninety-five, were read at the section meetings. Among the prominent authors reading papers were: D. J. Wort, J. Harry G. Smith, M. D. Meagher, University of British Columbia; Thomas M. Hinckley, Richard Walker, Stanley P. Gessel, F. C. Ugolini and D. D. Woolridge, G. E. Goodspeed, University of Washington; Glenn L. Crouch, Donald Knutson, William A. Long, U.S. Forest Service; Kenneth Swedberg, and Bruce Lang, Eastern Washington State College; John Shrader, Donald G. Dittrich, Central Washington State College; Donald B. ZoBell, J. R. T. French and Denis P. Lavender, Oregon State University; John H. Merriam, and C. A. Hofman, Idaho State University; Mark J. Behan, University of Montana; Larry W. Henry, University of Puget Sound; Charles W. Philpot, U.S.F.S. Northwest Forest Fire Laboratory; A. R. Tiedemann, Pacific Northwest Forest and Range Experiment Station; J. M. Finnis, Washington State Department of Natural Resources, J. H. G. Smith, UBC; D. G. Brookins, Kansas State University; Wakefield Dort Jr., University of Kansas; R. P. Pharis, University of Calgary, Canada; Paul Heilman, Crown Zellerbach Co.; R. W. Fonda, Don J. Easterbrook, Western Washington State College; J. Homer Ferguson, Robert Wissmar, Nancy L. Savage, Lorin W. Roberts, A. E. Slinkard, Edmund E. Tylutki, Malcolm M. Furniss, Robert I. Matthews, University of Idaho; Rexford Daubenmire, Adolph Hecht, Bruce V. Ettling, M. A. Adams, Carl Johansen, H. S. Relford, Grant A. Harris, Roald Fryxell, Joseph W. Mills, Washington State University; W. T. Barry, Gonzaga University, Spokane; Harry Kleine, Columbia Basin College, Pasco, Washington; Frederick Young, Evergreen State College; Daniel H. Henning, University of New Mexico; Sherman L. McIure, Mount Hood Community College; E. Norberg, Idaho Department of Fish and Game; W. A. Johnston, Whitworth College; Richard Clem, Whitman College; Donald R. Jones, Centralia College; Randall E. Brown, Battelle Northwest.



The Northwest Scientific Association honored Julian D. Barksdale, University of Washington; Charles D. Campbell, Washington State University; William K. Ferrell, Oregon State University; and Maurice T. James, Washington State University, with Honorary Life Memberships.

The Outstanding Scientists awards went to Luther S. Cressman, University of Oregon; Stanley P. Gessell, University of Washington; and Thomas M. C. Taylor, University of British Columbia.

## 1972

The forty-fifth annual meeting of the Northwest Scientific Association was held at Western Washington State College, Bellingham, Washington, on March 23-25, 1972. The Officers elected to serve for the year of 1972 were: William Dittrich, Western Washington State College, President; Richard H. Clem, Whitman College, Vice President; Glenn H. Deitschmann, U.S. Forest Service, Secretary-Treasurer. The Editor of *Northwest Science* was Bruce V. Ettling. Trustees for 1972: Levon Balzer, Western Washington State College; Ray A. Broderson, Oregon College of Education; Ernest H. Gilmour, Eastern Washington State College; Daniel H. Henning, Eastern Montana College; Donald R. Horner, Eastern Washington State College; Otis C. Maloy, Washington State University; Bernard L. Martin, Central Washington State College; Robert D. Pfister, U.S. Forest Service; J. Harry G. Smith, University of British Columbia; Kenneth Waldroff, Division of Continuing Education, Salem, Oregon.

New Trustees: W. Louis Barrett, Western Washington State College; Harry H. Caldwell, University of Idaho; James R. Habeck, University of Montana; Edwin A. Olson, Whitworth College; and Oscar Sziklai, University of British Columbia.

The Honorary Trustees named at the meeting were: Donald Sheehan, Whitman College, Walla Walla, Washington; Edward L. Foubert, Hollister-Stier Laboratories, Spokane, Washington; Glenn Deitschmann, U.S. Forest Service, Moscow, Idaho.

A Symposium on Research on "Coniferous Forest Ecosystems; First Year Progress in the Coniferous Forest Biome, US/IBP" was coordinated by: Jerry F. Franklin, U.S. Forest Service Pacific Northwest Forest and Range Experiment Station, Corvallis, Oregon; Dale W. Cole, College

of Forest Resources, University of Washington and Richard H. Waring, School of Forestry, Oregon State University.

Co-chairman for all programming and local arrangements were: W. Louis Barrett and Willard A. Brown, Physics Department, Western Washington State College.

A total of 191 papers were presented at the Symposium and the general sections. Prominent speakers were: Stanley P. Gessel, Paul R. Olson, Dale W. Cole, F. B. Taub, Richard B. Walker, D. R. M. Scott, K. L. Reed, B. J. D. Meeuse, F. C. Ugolini, University of Washington; W. Scott Overton, Denis P. Lavender, M. A. Strand, Oregon State University; Robert C. Mitchell, K. H. Baker, Central Washington State College; Dwight Crandall, Tacoma Community College; E. L. Gafford, Battelle Northwest; Donald E. Acheson, University of Puget Sound; Edward B. Wright, Blue Mountain Community College; Warren R. Scott, Wenatchee Valley College, Wenatchee, Washington; R. G. Mitchell, William A. Long, A. R. Tiedemann, U.S. Forest Service; Jerry F. Franklin, G. L. Crouch and M. A. Radwan, U.S.F.S. Pacific Northwest Forest and Range Experiment Station; Mark Johnson, State Board of Community Colleges, Olympia, Washington; Paul A. Eddy, Washington State Department of Ecology; A. S. Baker, Bruce V. Ettling, Mark Adams, Washington State University; R. S. Babcock, Thomas T. Read, Levon Balzer, Western Washington State College; Lorin W. Roberts, Edmund Tylutki, Earl J. Larrison, University of Idaho, Blondel Carleton, University of Portland; Lloyd G. Fritz, Ernest H. Gilmour, D. R. Horner, Eastern Washington State College; R. D. Harr, University of California; J. P. Riley, Utah State University; Mark Behan, W. Selser, University of Montana; W. D. Bliss, Montana State University; Daniel H. Henning, Eastern Montana College, Billings, Montana; V. J. Kraina, D. J. Wort, J. Harry G. Smith, Phillip G. Haddock, O. Sziklai, M. Meagher, T. E. Baker, University of British Columbia.

Honorary Life Membership was granted to Rufus W. Kiser, Centralia College, and Frank Nicol, Eastern Washington State College.

The Association named as outstanding scientist Orlin Biddulph, Washington State University, Pullman, Washington.

The secretary also reported the registered attendance at the 45th annual meeting at 373 and total membership at a record-setting 566.

## Honorary Trustees of the Northwest Scientific Association

- 1934  
W. D. Vincent  
Stanley A. Easton, Kellogg, Idaho
- 1935  
W. D. Vincent  
Stanley A. Easton, Kellogg, Idaho
- 1936  
Stanley A. Easton, Kellogg, Idaho  
R. L. Rutter, Spokane, Washington
- 1937  
Stanley A. Easton, Kellogg, Idaho  
R. L. Rutter, Spokane, Washington
- 1938  
Stanley A. Easton, Kellogg, Idaho  
R. L. Rutter, Spokane, Washington
- 1939  
Stanley A. Easton, Kellogg, Idaho  
R. L. Rutter, Spokane, Washington
- 1940  
Stanley A. Easton, Kellogg, Idaho  
R. L. Rutter, Spokane, Washington
- 1941  
Stanley A. Easton, Kellogg, Idaho  
R. L. Rutter, Spokane, Washington
- 1942  
Stanley A. Easton, Kellogg, Idaho  
R. L. Rutter, Spokane, Washington
- 1943  
NO MEETING
- 1944  
NO MEETING
- 1945  
Stanley A. Easton, Kellogg, Idaho  
R. L. Rutter, Spokane, Washington
- 1946  
W. M. Compton, Pullman, Washington  
R. L. Rutter, Spokane, Washington
- 1947  
W. M. Compton, Pullman, Washington  
R. L. Rutter, Spokane, Washington
- 1948  
J. E. Buchanan, Moscow, Idaho  
F. Ellis Johnson, Hanford, Washington  
Very Rev. Charles E. McAllister, Spokane, Wash.
- 1949  
R. B. Allen, Seattle, Washington  
H. M. Parker, Richland, Washington  
E. Ralph Edgerton, Spokane, Washington
- 1950  
Rev. R. E. Corkery, S.J., Spokane, Washington  
Norman Krey, Spokane, Washington  
H. M. Peet, Portland, Oregon
- 1951  
R. F. Bessey, Portland, Oregon  
J. A. McCluskey, Spokane, Washington  
J. F. Warren, Spokane, Washington
- 1952  
J. C. Evenden, Coeur d'Alene, Idaho  
R. E. McConnell, Ellensburg, Washington  
E. B. MacNaughton, Portland, Oregon
- 1953  
Eric Johnston, Spokane, Washington  
A. L. Strand, Corvallis, Oregon  
W. E. Mitchell, Anaconda, Montana
- 1954  
W. A. Pearl, Portland, Oregon  
Stanley A. Easton, Kellogg, Idaho  
Carl McFarland, Missoula, Montana
- 1955  
Frank McLaughlin, Seattle, Washington  
Thornton T. Munger, Portland, Oregon  
R. R. Renne, Bozeman, Montana
- 1956  
William M. Allen, Seattle, Washington  
Allen C. Johnson, Idaho Falls, Idaho  
Don S. Patterson, Cheney, Washington
- 1957  
William M. Allen, Seattle, Washington  
Allen C. Johnson, Idaho Falls, Idaho  
Don S. Patterson, Cheney, Washington
- 1958  
C. Clement French, Pullman, Washington  
J. Herbert Stone, Portland, Oregon  
W. W. Moyer, Camas, Washington
- 1959  
C. Clement French, Pullman, Washington  
J. Herbert Stone, Portland, Oregon  
W. W. Moyer, Camas, Washington
- 1960  
Wilford Johnson, Hanford, Washington  
D. R. Theophilus, Moscow, Idaho  
Robert W. Cowlin, Portland, Oregon
- 1961  
Edwin F. Heacox, Weyerhaeuser Co.  
The Rev. Edmund Morton, Gonzaga  
W. H. Rathert, J. Neils Lumber



1962  
 F.A. Gilfillan (OSU)  
 James L. Jarrett (WWSC)  
 J. R. Simplot (Simplot Co.)

1963  
 James H. Jensen (OSU)  
 Boyd Rasmussen (USFS)  
 George Allen (Weyerhaeuser Co.)

1964  
 James E. Brooks (CWSC)  
 Vernon H. Cheldelin (OSU)  
 A. E. Weissenborn (USFS)

1965  
 George Brunzell (Wash. Water Power)  
 Sherwood Fawcett (Battelle NW)  
 Robert Johns (Montana St. U. Missoula)

1966  
 C. Clement French (WSU)  
 Herbert McKean (Potlatch Lumber)

1967  
 James Brooks (CWSC)  
 Eugene W. Greenfield (WSU)  
 Ernest Hartung (U. of Idaho)

1968  
 Ronald Paul (Battelle NW)  
 Emerson Shuck (EWSC)  
 Glenn Terrell (WSU)

1969  
 Philip Briegleb (USFS)  
 Henry Hansen (OSU)  
 Roy A. Young (OSU)

1970  
 Ernest Hartung (U. of Idaho)  
 Adolph Hecht (WSU)  
 Richard Walker (UW)

1971  
 Charles J. Flora (WWSC)  
 Edwin B. Lindaman (Whitworth)  
 Marshall Huntting (State of Washington)

1972  
 Donald Sheehan (Whitman)  
 Edward Faubert (Spokane)  
 Glenn H. Deitschman (USFS)

### Northwest Scientific Association Major Officers

Year	President	Vice-President	Secretary-Treasurer
1924	M. F. Angell Univ. of Idaho	Curtiss Merriman Cheney Normal O. C. Pratt Spokane	F. D. Heald, Sec. State College of Wash. E. B. Harris, Treas. Spokane University
1925	M. A. Brannon Univ. of Montana	L. K. Armstrong Spokane	F. D. Heald, Sec. State College of Wash. S. E. Wodsedalek, Treas. Univ. of Idaho
1926	C. H. Clapp Univ. of Montana	L. K. Armstrong Spokane	F. D. Heald State College of Wash.
1927	L. K. Armstrong Spokane	E. C. Johnson State College of Wash.	J. W. Hungate Cheney Normal
1928	E. A. Bryan State College of Wash.	I. C. Crawford Univ. of Idaho	J. W. Hungate Cheney Normal
1929	J. A. Kostalek Univ. of Idaho	F. A. Thomson Montana Mines	J. W. Hungate Cheney Normal
1930	F.A. Thomson Montana Mines	C. C. Todd State College of Wash.	J. W. Hungate Cheney Normal

Year	President	Vice-President	Secretary-Treasurer
1931	E. O. Holland State College of Wash.	Carl von Ende Univ. of Idaho	J. W. Hungate Cheney Normal
1932	I. C. Crawford Univ. of Idaho	T. C. Spaulding Univ. of Montana	J. W. Hungate Cheney Normal
1933	H. R. Flint USFS, Missoula	Thomas Large Spokane	O. W. Freeman Cheney Normal
1934	Thomas Large Spokane	J. W. Hungate Cheney Normal	O. W. Freeman Cheney Normal
1935	W. A. Rockie S.C.S., Pullman	T. A. Bonser Spokane	O. W. Freeman Cheney Normal
1936	J. W. Hungate Cheney Normal	C. W. Hungerford Univ. of Idaho	O. W. Freeman Cheney Normal
1937	C. C. Todd State College of Wash.	J. H. Ramskill Univ. of Montana	O. W. Freeman E.W.C.E.—Elected W. B. Merriam E.W.C.E.—Acting
1938	J. H. Ramskill Univ. of Montana	E. F. Gaines State College of Wash.	W. B. Merriam E.W.C.E.
1939	E. F. Gaines State College of Wash.	F. W. Gail Univ. of Idaho	W. B. Merriam E.W.C.E.
1940	F. W. Gail Univ. of Idaho	J. H. Christ S.C.S., Spokane	W. B. Merriam Oregon College of Educ.
1941	J. H. Christ S.C.S., Spokane	J. W. Severy Univ. of Montana	W. B. Merriam Oregon College of Educ.
1942	J. W. Severy Univ. of Montana	J. B. Appleton Northwest Planning Bd.	J. W. Hungate E.W.C.E.
1943	J. W. Severy Univ. of Montana	J. B. Appleton O.S.S., Wash., D.C.	J. W. Hungate E.W.C.E.
1944	J. W. Severy Univ. of Montana	J. B. Appleton O.S.S., Wash., D.C.	J. W. Hungate E.W.C.E.
1945	J. W. Severy Univ. of Montana	J. B. Appleton O.S.S., Wash., D.C.	J. W. Hungate E.W.C.E.
1946	H. T. Gisborne U.S.F.S., Missoula	J. G. McGivern Gonzaga Univ.	G. O. Baker Univ. of Idaho
1947	J. G. McGivern Gonzaga Univ.	O. W. Freeman E.W.C.E.	G. O. Baker Univ. of Idaho
1948	O. W. Freeman E.W.C.E.	R. F. E. Stier Spokane	L. C. Cady Univ. of Idaho

Year	President	Vice-President	Secretary-Treasurer
1949	R. F. E. Stier Spokane	E. E. Hubert Univ. of Idaho	L. C. Cady Univ. of Idaho
1950	E. E. Hubert Univ. of Idaho	J. L. Culbertson State College of Wash.	L. C. Cady Univ. of Idaho
1951	J. L. Culbertson State College of Wash.	R. A. Diettert Univ. of Montana	L. C. Cady Univ. of Idaho
1952	R. A. Diettert Univ. of Montana	H. P. Hansen Oregon State College	L. C. Cady Univ. of Idaho
1953	H. P. Hansen Oregon State College	L. C. Cady Univ. of Idaho	F. J. Schadegg E.W.C.E.
1954	L. C. Cady Univ. of Idaho	T. J. O'Leary, S.J. Gonzaga Univ.	F. J. Schadegg E.W.C.E.
1955	T. J. O'Leary Gonzaga Univ.	P. E. Church Univ. of Washington	F. J. Schadegg E.W.C.E.
1956	F. B. Farquharson Univ. of Washington	S. Warren Hobbs U.S.G.S., Spokane	W. B. Merriam State College of Wash.
1957	S. Warren Hobbs U.S.G.S.	William K. Ferrell Oregon State College	W. B. Merriam State College of Wash.
1958	William K. Ferrell Oregon State College	Mark F. Adams State College of Wash.	W. B. Merriam State College of Wash.
1959	Mark F. Adams State College of Wash.	John R. Roberts Pacific University	W. B. Merriam State College of Wash.
1960	John R. Roberts Pacific University	Kenneth E. Hungerford Univ. of Idaho	W. B. Merriam Wash. State Univ.
1961	Kenneth Hungerford Univ. of Idaho	W. B. Merriam Wash. State University	Earl Larrison Univ. of Idaho
1962	W. B. Merriam Wash. State Univ.	W. H. Baker University of Idaho	Earl Larrison Univ. of Idaho
1963	W. H. Baker Univ. of Idaho	Richard Walker Univ. of Washington	Bruce Ettling Wash. State University
1965	F. J. Schadegg Cheney, E.W.C.E.	Adolph Hecht Wash. State Univ.	Bruce Ettling Wash. State University
1966	Adolph Hecht Wash. State University	Rex Boughton Univ. of B.C.	Bruce Ettling Wash. State University
1967	Rex Boughton Univ. of B.C.	Julian Barksdale Univ. of Washington	Bruce Ettling Wash. State Univ.
1968	Julian Barksdale Univ. of Washington	Randall Brown Battelle—Northwest	Bruce Ettling Wash. State University

Year	President	Vice-President	Secretary-Treasurer
1969	Randall Brown Battelle—Northwest	James Trappe U.S.F.S., Corvallis	Glenn Deitschman U.S.F.S., Moscow
1970	James Trappe U.S.F.S., Corvallis	Lorin Roberts Univ. of Idaho	Glenn Deitschman U.S.F.S., Moscow
1971	Lorin Roberts Univ. of Idaho	William Dittrich W.W.S.C.	Glenn Deitschman U.S.F.S., Moscow
1972	William Dittrich W.W.S.C.	Richard Clem Whitman College	Glenn Deitschman U.S.F.S., Moscow
1973	Richard Clem Whitman College	D. J. Wort Univ. of B.C.	Glenn Deitschman U.S.F.S., Moscow

### Recipients of the Outstanding Scientist Award

1961	Homer J. Dana C. P. Ross A. L. Anderson	Washington State University
1966	R. A. V. Raff	Washington State University
1967	Grace Howard E. S. E. Hafez	University of Washington Washington State University
1968	Mark F. Adams E. Roy Tinney J. Hoover Mackin	Washington State University Washington State University University of Washington
1969	Helen Gilkey C. Leo Hitchcock	Oregon State University University of Washington
1970	Jerry Franklin Stanley Williamson Vladimir Krajina Rexford Daubenmire	U.S. Forest Service, Corvallis Oregon State University University of British Columbia Washington State University
1971	Luther S. Cressman Stanley P. Gessell Thomas M. C. Taylor	University of Oregon University of Washington University of British Columbia
1972	Orlin Biddulph	Washington State University



(Announcements, continued)

These awards and annual grants will again be offered in 1989. More details on nomination and application procedures will appear in the November issue of *Northwest Science*.

#### Upcoming Annual Meeting of the Northwest Scientific Association

The 1989 Meeting of the Northwest Scientific Association will be held at the Tri-Cities University Center in Richland, Washington.

#### Tentative Schedule of Future Meeting Sites

- 1990—Oregon State University
- 1991—Boise State University
- 1992—Western Oregon University
- 1993—Eastern Oregon University
- 1994—University of Oregon

#### In Memoriam

Friends of C. Clement French will be saddened to learn that he died in March of this year. A chemist by training, he served as the sixth president of Washington State University (1952-1966). He was a longstanding member of Northwest Scientific Association and an Honorary Trustee.

We have just learned of the death of Norman S. Golding at age 95 on 30 August 1984. While a dairy scientist at Washington State University he helped develop "Cougar Gold" cheeses, research that he continued after his retirement in 1955. He was a longstanding member of Northwest Scientific Association and an Honorary Life Member.

#### Meetings of Interest

##### Wildland Shrub Symposium

The Shrub Research Consortium is sponsoring the Sixth Wildland Shrub Symposium April 5-7, 1989 at the Holiday Inn, Las Vegas, Nevada. The symposium will address topics in wildland shrub biology and management including cheatgrass invasion, shrub die-off, and other aspects of shrub biology and management. A field trip is planned to the Nevada Test Site of the U.S. Department of Energy. Both contributed (20 minutes) and invited papers will be presented. The proceedings will be published by the USDA Forest Service, Intermountain Research Station. If you would like to present a paper, send a title and abstract by December 15, 1988 to Dr. E. M. Romney, Laboratory of Biomedical and Environmental Sciences, University of California, Los Angeles, 900 Veteran Avenue, Los Angeles, CA 90024.

##### Whitebark Pine Ecosystems

The U.S. Forest Service, U.S. National Park Service, Montana State University, and the Society of American Foresters are jointly sponsoring a symposium, "Whitebark Pine Ecosystems: Ecology and management of a high mountain resource" to be held 29-31 March 1989 at Montana State University (Bozeman). A concluding field trip into whitebark pine forests near Big Sky Ski Resort is planned. All accepted papers and synopses of posters will be published in the proceedings of the symposium. Please submit title, authors, and a 200-300 word abstract of proposed papers (by 31 October 1988) or posters (by 31 December 1988) to Wyman C. Schmidt, Forestry Sciences Laboratory, Montana State University, Bozeman, Montana 59717 (Tel. 409-994-4852).