



Curriculum Vitae

Royse Peak Murphy

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Curriculum Vitae

Murphy, Royse Peak



Born: 2 May 1914, Norton, Kansas [**Died:** December 31, 2012 at age 98]

Parents: Mabel Letha Peak and John Hubert Murphy

University Address:

Department¹ of Plant Breeding, Bradfield Hall, N. Y. State College of Agriculture and Life Sciences
Cornell University, Ithaca, NY 14853.
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Residence: 714 Hanshaw Road
Ithaca, NY 14850
Telephone: 607-257-6556

Education: Norton Community High School, graduated 1932.
B.S. with honors Kansas State College 1936, major agronomy.
M.S. University of Minnesota 1938, major agronomy.
PhD. University of Minnesota 1941, major plant genetics.

Honorary Societies:

Alpha Zeta 1933
Gamma Sigma Delta 1936
Sigma Xi 1938

Positions:

Undergraduate Assistant, Kansas State College, 1932-1936.
Graduate Assistant, University of Minnesota, 1936-1937.
Instructor, University of Minnesota, 1937-1941.
Assistant Professor, University of Minnesota, 1941-1942.
Associate Professor, Montana State University, 1942-1946.
Geneticist, USDA Emergency Guayule Rubber Project, Edinburg, Texas, 1943.
U.S. Naval Reserve, Lieutenant J.G., active duty, 1944-1946.
Associate Professor, Cornell University, 1946-1948.
Professor, Cornell University, 1948-1979.
Chairman, Department of Plant Breeding, 1953-1964.
Chairman, Committee on Plant Breeding and Genetics, The Agricultural Board, National Academy of Sciences and The National Research Council, 1955-1963.
Temporary Staff, Forage Crops Research, The Rockefeller Foundation, Santiago, Chile, 1961-1962.
Dean of Faculty, Cornell University, 1964-1967.
Faculty Member, Cornell University Board of Trustees, 1967-1970.
Consultant on University Development at Kasetsart University, Thailand, The Rockefeller Foundation, 1969.
Visiting Scientist, International Institute of Tropical Agriculture, Ibadan, Nigeria, The Rockefeller Foundation, 1970-1971.
Member, U.S. Forage Team, USSR Tour, 21 June-11 July, under US-USSR ScienceExchange Agreement, 1974.
Professor Emeritus, Cornell University, 1979.

Membership in Research Societies:

Genetics Society of America
Crop Science Society of America
American Society of Agronomy
American Institute of Biological Sciences
American Forage and Grassland Council
American Association for the Advancement of Science

University and College Committee Assignments:

Member of College Seed Committee, 1949-1979.
Member of General Committee, Graduate School, 1961-1964.
Member of University Faculty Committee on Research Policy, 1973-1976.
Member of Committee on the MPS degree in International Agricultural Development, 1975-1979.
Member of College Committee on the Snyder-Morris Scholarships, 1975-1979.
Member of University Faculty Presidential Search Committee, 1976.
Speaker, Faculty of the College of Agriculture and Life Sciences, 1976-1979.
Many ad hoc committees, 1947-1979.

Professional Awards or Recognition:

Fellow, American Society of Agronomy, 1955.
Fellow, American Association for the Advancement of Science, 1958.
President, Crop Science Society of America, 1961-1962.
Recipient of Science Award for contributions to Northeast Agriculture by the New York City Farmers Club, 1970.
Honorary member, New York State Seed Association, ca 1975.
Fellow, Crop Science Society of America, 1985.
Honorary member, North American Alfalfa Improvement conference, 1988.
Research Award, Certified Alfalfa Seed Council, 1991.

Varieties Developed in Collaboration with Carl C. Lowe and Graduate Research Assistants:

Alfalfa:

Cayuga	1960
Saranac	1963
Mark II	1965
Iroquois	1966
Multileaf	1972
Saranac AR	1973
Honeoye	1973
Oneida	1980
Mohawk	1983

Smooth bromegrass:

Saratoga	1955
York	1988
Peak	1997

Timothy:

Essex

Graduate Students:

Doctor of Philosophy:

- 1950 Kohli, Satya Prakash
- 1951 Hittle, Carl Nelson
- 1952 Lowe, Carl Clifford
Ensign, Ronald Dan
Keim, Wayne Franklin
- 1953 Nittler, LeRoy Walter (with A.A. Johnson)
- 1956 Sprague, Ernest Warren
- 1957 Schertz, Keith Francis
- 1958 Bent, Forrest Conser
Kreizinger, Jean Dolloff (with H.H. Smith)
- 1960 Sigjuibjörnsson, Björn
Murty, Bhyravabhotla Radhakrishna (thesis with H.H. Smith) Miller, Jonas William
- 1961 Downey, Richard Keith
Downes, Ross Whyte (with C.C. Lowe)
- 1964 Sayers, Earl Roger
Bingham, Edwin Theodore
- 1978 Sumberg, James Enos
- 1981 Heisey, Robert Funk
- 1982 McCaslin, Mark Howard
- 1984 Smith, Steven Ellsworth (with D.R. Viands)

Master of Science:

- 1948 Sawada, George (with W.E. Snyder)
- 1949 Ku, Yuen-liang
- 1950 Lowe, Carl Clifford
- 1952 Underwood, John Francis (with A.A. Johnson)
- 1954 Escuro, Pedro B.
- 1961 Sayers, Earl Roger
- 1965 Pachecco, Hugo Armando
- 1970 Banchemo, Carlos Bartolome
- 1971 Ferguson, John Elliott
- 1976 Craven, Mary Melissa
- 1977 Sumberg, James Enos (with C.C. Lowe)
- 1979 Heisey, Robert Funk

Publications:

- Murphy, R. P. and A. C. Amy. 1939. The emergence of grass and legume seedlings planted at different depths in five soil types. *Jour. Amer. Soc. Agron.* 31:17-28.
- Hayes, H. K., R. P. Murphy, E. H. Rinke and Carl Borgeson. 1941. Minhybrid corn varieties for Minnesota. *Minn. Agric. Expt. Sta. Bull.* 354. 40 p.
- Murphy, R. P. 1942. Convergent improvement with four inbred lines of corn. *Jour. Amer. Soc. Agron.* 34:138-150.
- Murphy, R. P. 1942. Methods of breeding crested wheatgrass, *Agropyron cristatum* (L.) Beauv. *Jour. Amer. Soc. Agron.* 34:553-565.
- Hayes, H. K., R. P. Murphy and E. H. Rinke. 1943. A comparison of the actual yield of double crosses of maize with their predicted yield from single crosses. *Jour. Amer. Soc. Agron.* 35:60-65.
- Murphy, R. P. 1944. Mimeograph and extension reports on the release of 'Arrow' flax and 'Mission' spring oats and the introduction of 'Renew' flax and 'Ranger' alfalfa in Montana. Department of Agronomy, Montana State College, Bozeman.
- Atwood, S. S. and R. P. Murphy. 1946. Better hay and pasture plants for midsummer production. *Farm Research* 12(4): 14.
- Atwood, S. S., R. P. Murphy and H. A. MacDonald. 1949. New forage crop varieties for New York. *Farm Research* 15(4): 12.
- Murphy, R. P. and S. P. Kohli. 1950. Results in New York State from the testing of several different increases of Ranger alfalfa. 32nd and 33rd *Annual Repts. Int. Crop. Impr. Assn.* 1950-51:65-79.
- Murphy, R. P. 1950. Superior varieties of forage crops. *Met. Milk Prod. News* 10(5): 10-12.
- Murphy, R. P. 1952. Comparison of different types of progeny in evaluating breeding behavior. *Proc. 6th Int. Grasslands Cong.* 1:320-326.
- Murphy, R. P. and S. S. Atwood. 1953. The use of I_1 families in breeding smooth brome grass. *Agron. Jour.* 45:24-28.
- Lowe, C. C. and R. P. Murphy. 1955. Open-pollinated seed setting among self-sterile clones of smooth brome grass. *Agron. Jour.* 47:221-224.
- Tyler, L. J., R. P. Murphy and H. A. MacDonald. 1956. Effect of seed treatment on seedling stands and on hay yields of forage legumes and grasses. *Phytopath.* 46:37-44.
- Murphy, R. P. 1956. A look at future grass and legume varieties in the Northeast. *Proc. 1st Annual Farm Seed Ind.-Res. Conf.* 29-35.
- Murphy, R. P. and C. C. Lowe. 1956. Improved grasses for meadows and pastures. *Farm Res.* 22:15.
- Schertz, K. F. and R. P. Murphy. 1958. Fertility in relation to chromosome constitution and behavior in *Bromus inermis* Leyss. *Agron. Jour.* 50:372-376.
- Murphy, R. P. and S. S. Atwood. 1958. Registration of Saratoga smooth brome grass. *Agron. Jour.* 50:400.
- Murphy, R. P. and S. S. Atwood. 1958. Registration of Essex timothy. *Agron. Jour.* 50:401.

- Reid, J. T., W. K. Kennedy, K. L. Turk, S. T. Slack, G. W. Trimberger and R. P. Murphy. 1959. Symposium on forage evaluation: I. What is forage quality from the animal standpoint? *Agron. Jour.* 51:213-216.
- Murphy, R. P. and C. C. Lowe. 1963. Registration of Cayuga alfalfa. *Crop Sci.* 3:459-460.
- Bingham, E. T. and R. P. Murphy. 1965. Breeding and morphological studies on multifoliolate selections of alfalfa, *Medicago sativa* L. *Crop Sci.* 5:233-235.
- Murphy, R. P. 1965. Seed programming for varieties released by public agricultural experiment stations. *Proc. 11th Annual Farm Seed Conf.* 17-25.
- Sayers, E. R. and R. P. Murphy. 1966. Seed set in alfalfa as related to pollen tube growth, fertilization frequency, and post-fertilization ovule abortion. *Crop Sci.* 6:365-368.
- Murphy, R. P. and C. C. Lowe. 1966. Methods of breeding perennial forage species of the temperate zones of the United States. *Proc. Xth Int. Grasslands Cong.*: 607-613.
- Murphy, R. P. and C. C. Lowe. 1966. Registration of Mark II alfalfa. *Crop Sci.* 6:610.
- Murphy, R. P. and C. C. Lowe. 1966. Registration of Saranac alfalfa. *Crop Sci.* 6:611.
- Murphy, R. P. and C. C. Lowe. 1968. Registration of Iroquois alfalfa. *Crop Sci.* 8:396.
- Murphy, R. P. and C. C. Lowe. 1968. Iroquois alfalfa. *N.Y. Food and Life Sci. Quart.* 1(3): 14.
- Ferguson, J. E. and R. P. Murphy. 1973. Comparison of trifoliolate and multifoliolate phenotypes of alfalfa (*Medicago sativa* L.). *Crop Sci.* 13:463-465.
- Murphy, R. P. and C. C. Lowe. 1974. Two new alfalfa varieties: Saranac AR and Honeoye. *N.Y. Food and Life Sci. Quart.* 7(4): 11-12.
- Barnes, D. K., E. T. Bingham, R. P. Murphy, O. J. Hunt, D. F. Beaid, W. M. Skrdla and L. R. Teuber. Alfalfa germplasm in the United States: Genetic vulnerability, use, improvement, and maintenance. *U.S.D.A. Tech. Bull.* 1571. 21 p.
- Yen, S.T. and R. P. Murphy. 1979. Cytology and breeding of hexaploid alfalfa. I. Stability of chromosome number. *Crop Sci.* 19:389-393.
- Murphy, R. P. and C. C. Lowe. 1983. Registration of Honeoye and Saranac AR alfalfa. *Crop Sci.* 23:181.
- Sumberg, J. E., R. P. Murphy and C. C. Lowe. 1983. Selection for fiber and protein concentration in a diverse alfalfa population. *Crop Sci.* 23:11-14.
- Smith, S. E., R. P. Murphy and D. R. Viands. 1984. Reproductive characteristics of hexaploid alfalfa derived from 3x X 6x crosses. *Crop Sci.* 24:169-172.
- Heisey, R. F. and R. P. Murphy. 1985. Phenotypic recurrent selection for resistance to *Phytophthora* root rot in two diploid alfalfa populations. *Crop Sci.* 25:693-694.
- Smith, S. E. and R. P. Murphy. 1986. Relationships between inbreeding, meiotic irregularity, and fertility in alfalfa. *Can. J. Genet. Cytol.* 28:130-137.
- Murphy, R. P. and C. C. Lowe. 1989. Registration of Oneida alfalfa. *Crop Sci.* 29:487.

- Murphy, R. P., C. C. Lowe and D. R. Viands. 1989. Registration of Mohawk alfalfa. *Crop Sci.* 29:487.
- Viands, D. R., C. C. Lowe, R. P. Murphy, and R. L. Millar. 1990. Registration of 'Oneida VR' alfalfa. *Crop Sci.* 30: 955.
- Hansen, J.L., R.P. Murphy, D.R. Viands, and A.A.G. Westra. 2005. Registration of 'York' Smooth Bromegrass. *Crop Sci.* 45:2646
- Murphy, R. P., Julie L. Hansen and D. R. Viands. Registration of Peak smooth bromegrass. (*Not published*)
- Murphy, R.P. and L.B. Kass. 2007. *Evolution of Plant Breeding at Cornell University: A Centennial History, 1907-2006*. Department of Plant Breeding & Genetics, Cornell University, Ithaca, NY, Pp. 1-98, Appendices A1-A98, Photo Section P1-P38. (July 2007). [See the revised version below.]
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