

**2004 ANNUAL REPORT
OSBORN RESEARCH CLUB
IOWA STATE UNIVERSITY**

I. Founders

E. D. Ball, F. E. Brown, R. E. Buchanan, I. E. Melhus, and J. A. Wilkinson

II. Charter Members (February 1920)

Bakke, A. L.	Emerson, P. C.	Lamb, A. R.
Baldwin, F. M.	Erwin, A. T.	Martin, J. N.
Ball, E. D.	Evvard, J. M.	Melhus, I. E.
Beach, S. A.	Fenton, F. A.	Murphy, H. S.
Beyer, S. W.	Fulmer, E. I.	Murray, C.
Brown, F. E.	Gilman, H.	Nelson, V. E.
Brown, P. E.	Gilman, J. C.	Pammel, L. H.
Buchanan, R. E.	Hammer, B. W.	Stevenson, W. H.
Coover, W. F.	Hayes, A.	Wilkinson, J. A.

III. Chairpersons, by year

1920	Melhus, I. E., Botany	1943	Werkman, C. H., Bacteriology
1921	Wilkinson, J. A., Chemistry	1944	Holl, D. L., Mathematics
1922	Bemis, H. E., Vet. Medicine	1945	Hewitt, E. A., Vet Physiology
1923	Wellhouse, W. H., Zoology-Ent.	1946	Richardson, C. H., Zoology-Ent.
1924	Emerson, P. C., Farm Crops-Soils	1947	Carr, P. H., Physics
1925	Woodrow, J. W., Physics	1948	Murphy, H. C., Bot.-Farm Crops
1926	Gilman, J. C., Botany	1949	Bird, E. W., Food Technology
1927	Burnett, L. C., Farm Crops	1950	Loomis, W. E., Botany
1928	Hammer, B. W., Dairy Bact.	1951	Earls, L. T., Physics
1929	Rickey, R. W., Horticulture	1952	Buchanan, R. E., Bacteriology
1930	Brown, F. E., Chemistry	1953	Hendrickson, G. O., Zoology-Ent.
1931	Lindstrom, W. E., Genetics	1954	Gwynne, C. S., Geology
1932	Knight, H. H., Zoology-Ent.	1955	Murphy, G., Nuclear Eng.
1933	Murray, C., Vet. Research	1956	Bakke, A. L., Botany
1934	Guthrie, J. E., Zoology-Ent.	1957	Hamilton, H. L., Zoology-Ent.
1935	Snedecor, G. W., Statistics	1958	Craft, W. A., Animal Science
1936	Lush, J. L., Animal Science	1959	Fox, G. W., Physics
1937	Becker, E. R., Zoology-Ent.	1960	Jacobson, N. L., Dairy Science
1938	Gilkey, H. J., T. & A. M.	1961	Shaw, R. H., Agronomy
1939	Beister, H. E., Vet. Research	1962	Kirkham, D., Agronomy-Physics
1940	Harris, H. M., Zoology-Ent.	1963	Tauber, O. E., Zoology
1941	Clark, N. A., Chemistry	1964	Allen, R. S., Biochem.-Biophys.
1942	Cannon, C. Y., Dairy Husbandry	1965	Wilhelm, H. A., Chemistry
1966	Frey, K. J., Agronomy	1986	Dellmann, H. D., Vet. Anatomy

1967	Dahm, P. A., Zoology-Ent.	1987	Horner, H. T., Botany
1968	Maple, C. G., Computation Center	1988	Beitz, D. C., An. Sci./Biochem.
1969	Melampy, R. M., Animal Science	1989	Greimann, P. A., Civil/Const. E.
1970	Weiss, H. J., Engr. Mech.-Math.	1990	Garcia, P. A., Food & Nutrition
1971	Stewart, R. M., Computer Science	1991	Reilly, P. J., Chemical Engr.
1972	Wedin, W. F., Agronomy	1992	Bachmann, M. D., Animal Ecology
1973	Denisen, E. L., Horticulture	1993	Finnemore, D.K., Phys/Astronomy
1974	Pohm, A. V., Electrical Engr.	1994	Anderson, L. L., Animal Science
1975	Smith, F. G., Botany-Plant Path.	1995	Dolphin, W. E., Zoology & Genetics
1976	Swenson, M. J., Vet. Physiology	1996	Berger, P. J., Animal Science
1977	Cox, D. F., Statistics	1997	Pierson, B. L., Aero./Engr. Mech.
1978	Seagrave, R. C., Chem. Engr.	1998	Willson, L.A., Physics/Astronomy
1979	Willham, R. L., Animal Science	1999	Clem, John R., Physics/Astronomy
1980	Hammond, E. G., Food Tech	2000	Hill, James C., Chem. Engr.
1981	Ulmer, M. J., Zoology	2001	Hall, Richard B., Forestry
1982	Roderuck, C. E., Food & Nutrit.	2002	Lamont, Susan J., Animal Science
1983	Vondra, C. F., Earth Sciences	2003	Scanes, Colin G., Animal Science
1984	Tiffany, L. H., Bot.-Plant Path.	2004	Murphy, Patricia, Food Science & Human Nutrition
1985	Bergles, A. E., Mechanical Engr.		

IV. Steering Committee (four-year terms with the last calendar year of service indicated in parentheses)

Cox, David	Statistics (2004)
Dellman, Dieter	Veterinary Anatomy (2005)
Jane, Jay-Lin	Food Science & Human Nutrition (2006)
Kraus, George	Chemistry (2007)
Reilly, Peter	Chemical Engineering (2008)
Birt, Diane	Food Science & Human Nutrition (2009)

V. Life members, with 25 or more years of membership (elected 1979 or before)

Name	Elected	Department	Program (Latest)	Steering Committee	Chair
Anderson, L. L.	1965	Animal Science	1969		1994
Baumann, E. R.	1961	Civil & Const. Engr.	1975		
Beitz, D. C.	1976	Animal Sci. / Biochem.	1996	1979-82	1988
Boylan, D. R.	1960	Chemical Engr.	1961		
Cox, D. F.	1963	Statistics	1983	1975-78 2001-04	1977
David., H. A.	1974	Statistics	1975		
Dellmann, H. D.	1978	Vet. Anatomy	1979	2001-2005	1986
Finnemore, D. K.	1965	Physics & Astronomy	1998	1984-87	1993
Freeman, A. E.	1959	Animal Science	1983	1986-89	
Frey, K. J.	1955	Agronomy	1982		1966
Hall, R. B.	1977	Forestry	1996	1997-2000	2001
Hammond, E. G.	1959	Food Sci./Human Nutr.	1964		1980
Horner, H. T.	1969	Botany	1981	1977-80	1987
Horowitz, J.	1972	Biochem. & Biophys.	1996		
Jacobson, N. L.	1949	Animal Science	1953		1960
McGee, T. D.	1967	Mat. Sci. Engr.	1968	1973-76	
Ekberg, C.E.;	1962	Civil and Const. Engr.;	1965		
Peterson, P. A.	1959	Agronomy / Zool/Gen.	1962	1968-71	
Pierson, B. L.	1977	Aero Engr & Engr Mech	1995	1982-85	1997
Pletcher, R. H.	1977	Mech. Engr.	1979	1996-99	
Pohm, A. V.	1961	Electrical Engr.	1982		1974
Pollak, E.	1975	Statistics	1986		
Read, A. A.	1964	Electrical Engr.	1964		
Robertson, D. S.	1959	Zoology & Genetics	1966		
Reilly, Peter	1979	Chemical Engineering	1999	2004-2008	1991
Roderuck, C. E.	1973	Food & Nutrition	1974		1982
Rowley, W. A.	1973	Entomology	1982	1982-84	
Seagrave, R. C.	1972	Chem. Engr.	2001		1978
Serovy, G. K.	1961	Mech. Engr.	1963		
Shaw, R. H.	1957	Agronomy	1958		1961
Smith, F. G.	1950	Botany	1954	1965-68	1975
Stewart, R. M.	1959	Computer Science	1966		1971
Swenson, M. J.	1960	Vet. Phys. & Pharm.	1966	1970-73	1976
Swenson, R. W.	1975	Botany	1976		
Tiffany, L. H.	1973	Botany	1984	1984	
Tollefson, J. J.	1977	Entomology	2001	1999-2002	
Trenkle, A. H.	1977	Animal Science	1978	1995-98	
Vondra, C. F.	1972	Geol. & Atmos. Sci.	1993	1978-81	1983
Wheellock, T. D.	1967	Chemical Engr.	1968	1993-96	
Wilder, D. R.	1961	Mat. Sci. Engr.	1966		
Willham, R. L.	1969	Animal Science	2002	1976-79	1979
Willson, L. A.	1977	Physics & Astronomy	1993	1980-83	1998
Young, D. F.	1962	Aero E. & Engr. Mech.	1962	1972-75	

VI. Active Members [attendance at 3 of the 9 meetings per calendar year (2004)].

Name	Elected	Department	Program (Latest)	Steering Committee	Chair
Alekel, Lee	2003	Food Sci & Human Nutr	2003		
Andreasen, Claire	2003	Veterinary Pathology	2004		
Bailey, T. B., Jr.	1983	Statistics	1986		2005
Berger, P. J.	1980	Animal Science	1980	1992-95	1996
Barua, Arun	2004	Biochemistry, Biophysics & Molecular Biology	2004		
Birt, Diane	1999	Food Sci/HN	2000	2005-2009	
Buss, Jan	2003	Biochemistry, Biophysics & Molecular Biology			
Duvick, D. N.	1992	Agronomy	1995		
Flakoll, Paul	2003	Food Sci/HN/ Animal Sci	2004		
Garcia, P. A.	1985	Food Sci./Human Nutr.	1986		1990
Graves, W. R.	2000	Horticulture	1998		
Hill, J. C.	1987	Chemical Engr.	1987		2000
Jane, J.-L.	1990	Food Sci./Human Nutr.	1991	1994-97	
Jiles, David	2004	Materials Sci & Eng	2003		
Jolls, K. R.	1996	Chem. Engr.	1996		
Kanthasamy, A.	2004	Biomedical Sciences	2005		
Kawaler, Steve	2004	Physics & Astronomy	2004		
Kraus, G. A.	1988	Chemistry	1990		
Lamont, S. J.	1988	Animal Science	2002	1998-2001	2002
Lin, Victor	2004	Chemistry	2004		
Martin, R.J.	2003	Biomedical Sciences	2002		
McGee, Dennis	Reactive d 2004	Plant Pathology			
Minion, Chris	2003	Veterinary Microbiology & Preventive Medicine			
Morris, Max	2004	Statistics	2004		
Murphy, P. A.	1986	Food Sci. Human Nutr.	1987	2000-2003	2004
Nonnecke, Gail	2004	Horticulture	2004		
Okiishi, T. K.	1980	Mech. Engr.	1981		
Petrich, Jake		Chemistry			
Pohl, N.	2004	Chemistry			
Reecy, J. M.	2000	Animal Science	2001		
Reynolds, D.L.	2004	Veterinary Microbiology			
Richt, Jurgen A.	2002	VMPM, NADC	2003		
Robyt, John	Reactivat ed 2003	Biochemistry, Biophysics and Molecular Biology			
Rothschild, M. F.	2001	Animal Science	2002		
Snyder, John E.	2002	Ames Laboratory			
Swenson, C. A.	1980	Physics & Astronomy	1983		
Tipton, Carl		Biochemistry, Biophysics, & Molecular Biology			

Topel, David	2002	Animal Science			
Verkade, John	2004	Chemistry			
Wannamuler, Mike	2003	Veterinary Microbiology & Preventative Medicine	2004		
Willson, S. J.	1994	Mathematics	1995		
Woo, Keith	2004	Chemistry			

VII. Associate Members [attended less than three meetings during the calendar year (2004)]. This group receives meeting announcements, but does not vote for members or officers.

*** indicates members who need to attend at least one meeting in 2005 to remain members.**

Name	Elected	Department	Program (Latest)	Steering Committee	Chair
Angelici, R. J.	1989	Chemistry	1990		
Carpenter, Susan	2003	Veterinary Microbiology & Preventive Medicine			
Cheville, Norman	2003	Veterinary Medicine			
Dekkers, J. C.	2000	Animal Science	2001		
Dixon, Philip M.	2002	Statistics			
Doraiswamy, L. K.	1989	Chem. Engr.	1990		
Greimann, L. F.*	1985	Civil & Constr. Engr.	1987		1989
Hill John	Reactivated 2003	Plant Pathology	2000		
Komar, Carolyn	2003	Animal Science	2002		
Mallapragada, S.K.	2000	Chemical Engineering	2000		
Martin, S. W.	2002	Material Science/Engr.	2001		
Moon Harley	2003	Veterinary Pathology			
Narasimhan, Balaji	2002	Chemical Engineering			
Parrish, F. C.	1998	Animal Science	1999		
Pruski, Marek		Ames Laboratory			
Rajagopalan, R. Ganesh	2002	Aero E. & Engr. Mech.	FIL to 5/04		
Ross, R. F.	1991	Micro. Imm. Prev. Med.	1973		
Rudolphi, T. J.*	1996	Aero. Eng. & Eng. M.	2000		
Ruedenberg, K.	1981	Chemistry	1985		
Takle, E. S.	1991	Agronomy /Geol. At. Sci.	1992		
Vleck, Carol	2003	Ecology & Evolutionary Biology	2003		
Windom, K. E.*	1982	Geol. & Atmos. Sci.	1988		
Youngquist, G. R.	1987	Chem. Engr.	1989		

VIII. Changes to membership in 2004

- A. New Members:** G. Nonnecke, D. Jiles, M. Morris, L. Alekel, A. Barua, V. Lin, D. Reynolds, A. Kanthasamy, S. Kawaler, J. Verkade, N. Pohl, K. Woo
- B. Resigned (rs), moved (m), deceased (d), or dropped (dr):** Associate members dropped because they attended no meetings in 2003 & 2004: Chimenti, D.E., Clem,

J.R., Dolphin, W, Hart, E.R., Hong, M., Horst, R., Keeney, D., Marple, D.N., Myers, A. Russell, A.M., Switzer, W., White, P.J.; (deceased) Hollander, W.F., Zaffarano, D. J.; (moved) Kelly, M., Scanes, C.; (resigned) none.

- C. **To Life Membership:** Reilly, Peter
- D. **Associate to Active:** Duvick, Graves, Petrich, Reecy, Rothschild
- E. **Active to Associate:** Carpenter, Cheville, John Hill, Komar, Mallapragada, Martin, Moon, Narasimhan, Pruski, Ross, Rudenberg, Vleck, Wannamuler, Youngquist
- F. **Re-activated:** D. McGee

IX. Dinner Programs presented during 2004:

- January 12 Paul Flakoll
Insulin, nutrients, exercise, and muscle mass: Searching for sensitivity in a world of disease
- February 9 Michael J. Wannemuehler
Interactions Between the Host and Its Flora: A Model of Bacterial-induced Colitis
- March 8 Claire Andreasen
Immunomodulatory Stimulation of Host-Response to *Salmonella enteritidis*
- April 12 Gail Nonnecke
Improving productivity and quality of berry fruit crops in Iowa horticultural systems.
- May 10 Max Morris
Statistical Image Analysis for Toolmark Forensics
- September 13 Arun Barua
Carotenoids & Retinoids
- October 11 Victor S.-Y. Lin
Gatekeeping Effect: Multi-functionalized Mesoporous Silica Nanomaterials for Catalysis, and Biotechnological Applications
- November 8 Clark Wolf
Intellectual Liberty and Public Regulation of Science
- December 13 Steve Kawaler
Astronomy for the instant gratification set: stellar phenomena on time scales from nanoseconds to decades

X. Financial statement, balance as of December 31, 2004

First National Bank, Ames, Iowa: Hi-Fi Money Market Account No 73184.

Starting Balance: \$347

Year-end balance for 2004: \$294.74

The year-end balance represents the funds on deposit at the bank, corrected for the amount of one check, written in late December for payment of the Memorial Union for the December meeting meals, which had not posted to the bank account by year-end.

Our dinner fee was raised in April 2004 to \$15.00. However, the Memorial Union raised the dinner price again in September 2004 to \$14.75 per dinner (without dessert) in MU. At this dinner price and attendance level, each attendee contribution does not cover the payment of the "speaker's expenses" of the meeting -- the dinner fee for the speaker. The chair brought the media equipment from her department office to minimize other costs. Additionally, two months of the academic year 2004-05 (September and April), the Memorial Union was not available to us, although the room requests were made ahead of the deadline given by the MU staff. We have to meet in Scheman those two months and the fee structure in Scheman is much more expensive for meals, although the service and parking are much better. The most economical meal available at Scheman was \$15.13, again with few frills. Because of the increases in the Union's dinner price and occasions were the club may have to meet at Scheman, the 2005 Steering Committee should bring to a vote of the membership an increase in the dinner fee to at least \$17 or better \$18, to begin in March 2005, in order to cover meeting costs.

XI. General rules of the Osborn Research Club:

The club meets on the second Monday of each month from September through May. The program consists of a social period, dinner, and presentation of a research lecture by either a member or guest. Notices are sent about two weeks prior to each meeting and should be returned by the Thursday prior to the Monday meeting. Members are liable for reservations not canceled by noon the Thursday before the meeting.

To be an Active Member, attendance at three of the nine meetings of the calendar year is required. The rule is suspended when notification is given of being off campus or ill for one-half of the academic year. Lack of attendance places the member in the Associate Membership status. Associate Members cannot vote for members or officers. Associate Members not attending one meeting during the preceding two years are dropped from the roll.

Life Membership is granted after 25 years of membership. Life Members are exempt from attendance requirements; however, those who leave the Ames area are not continued on the Club roll.

The Steering Committee consists of five members, one of whom is elected each year at the annual election. The Steering Committee approves new members, select candidates for Chairperson and Steering Committee, and works with the Chairperson to guide the affairs of the Club.

The Chairperson is responsible for all the operation details of the Club, principally, meetings, membership and the annual election. The Chairperson serves for the calendar year, but traditionally assumes responsibility for the January meeting of the following year.

Nomination for membership should originate with a member and be endorsed by one other member. Nominations should go to the Chairperson. Criteria to consider in nominating a new member are as follows: (a) that the research field be clearly in the natural or physical sciences; (b) that the nominee be Iowa State University faculty or staff who is personally conducting research; (c) that the research activity and productivity be substantial and of high quality; and (d) that the nominee be on campus one year, or be transferring from another organization where they were responsible for their own research program.

By vote of the membership in December, 2001, all elections of new members and officers of the Osborn Research Club will be conducted over at least a four (4) week period from the time ballots are mailed to the membership. The closing date of the election will be printed as part of the ballot. Only those votes received by 5 p.m. on the closing date of an election will be counted. At their discretion, active and life members of the Osborn Research Club may register their vote on any club ballot either by e-mail or by hard copy. Confidentiality will be maintained on all ballots with only the Club Chair, Steering Committee Members, and the secretary who handles the Club Records having access to the individual ballots for counting purposes only. The selection of new members shall be by unanimous affirmative vote of the Steering Committee and by a two-thirds affirmative vote of the Active and Life Membership that votes within the prescribed election period.

By vote of the membership in May, 1986, the evening speaker's meal is paid for by the Osborn Research Club's treasury.

In April 2004, the amount charged for the dinner was raised from \$12.00 per person to \$15.00.

A copy of the history of the Osborn Club (including slides and script) has been deposited in the Archives of the Parks Library. Our records indicate that we lack all Annual Reports from 1931 to 1941. Otherwise the historical record appears to be complete.

XII. Chairp's Observations

It is appropriate for me to begin my remarks with expressions of appreciation to many people. We had excellent speakers. Each speaker gave a first rate presentation that engaged the participants in stimulating discussion. We had the opportunity to hear a wide range of topics and to stretch our thoughts a bit outside of our usual disciplinary boxes. I had outstanding support from the outgoing 2003 chairperson, Colin Scanes. He passed well-organized records and good suggestions to me, which eased my transition into the role of chairperson. The Steering Committee members provided excellent support, nominations and advice.

The year 2004 continued two trends for the Osborn Research Club. A highlight is the nomination and election of 12 new and one re-activated member of the Osborn Research

Club, a promising trend for the club resulting in 43 Life Members, 50 Active Members and 28 Associate Members. Five associate members returned to active status at the end of this year. However, 15 active members went to associate status due to attending less than 3 meetings this year. Average meeting attendance fell despite the number of new members! At 27 attendees, this year's average is two participants lower than that of last year. Next year's speaker line-up will be excellent and I am sincerely hope that the membership can show the dedication needed in attendance in 2005!

A continuing negative trend is attendance by our members. Certainly, part of this we can attribute to the overly full schedules that many professionals have nowadays, with many competing demands for our time. But the 27 members in attendance means that less than 25% of our membership, on average, attends any meeting. Better news was that among active members, average attendance was 32%. Only 16% of life members attended on the average.

I propose we continue to try to follow Colin Scanes suggestions in 2003 "to keep the club strong and vital, continuing its excellent tradition of 85 years? and then let's each commit ourselves to the following:

1. Attend at least the minimum of 3 meetings per year required for the active membership category, regardless of your present membership category.
2. Invite guests to the meeting. [e.g. new faculty members in your department, long-time colleagues who are not members, a postdoc or visiting scientist in your research group].
3. Nominate a colleague."
4. Meeting cost – We need to increase the meal to a minimum of \$17-18 to cover costs.
5. Call up a fellow member and invite him or her to attend with you.

I am confident that the club will thrive with the leadership of the 2005 chairperson, Ted Bailey, and the Steering Committee, and with your active participation. Your comments and suggestions are always welcome, as we look forward to a great year in the Osborn Research Club in 2005.

Respectfully submitted,

Patricia A. Murphy
Chairperson, 2004