

**2005 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	1944	Holl, D. L., Mathematics
1921	Wilkinson, J. A., Chemistry	1945	Hewitt, E. A., Vet Physiology
1922	Bemis, H. E., Vet. Medicine	1946	Richardson, C. H., Zoology-Ent.
1923	Wellhouse, W. H., Zoology-Ent.	1947	Carr, P. H., Physics
1924	Emerson, P. C., Farm Crops-Soils	1948	Murphy, H. C., Bot.-Farm Crops
1925	Woodrow, J. W., Physics	1949	Bird, E. W., Food Technology
1926	Gilman, J. C., Botany	1950	Loomis, W. E., Botany
1927	Burnett, L. C., Farm Crops	1951	Earls, L. T., Physics
1928	Hammer, B. W., Dairy Bact.	1952	Buchanan, R. E., Bacteriology
1929	Rickey, R. W., Horticulture	1953	Hendrickson, G. O., Zool.-Ent.
1930	Brown, F. E., Chemistry	1954	Gwynne, C. S., Geology
1931	Lindstrom, W. E., Genetics	1955	Murphy, G., Nuclear Eng.
1932	Knight, H. H., Zoology-Ent.	1956	Bakke, A. L., Botany
1933	Murray, C., Vet. Research	1957	Hamilton, H. L., Zoology-Ent.
1934	Guthrie, J. E., Zoology-Ent.	1958	Craft, W. A., Animal Science
1935	Snedecor, G. W., Statistics	1959	Fox, G. W., Physics
1936	Lush, J. L., Animal Science	1960	Jacobson, N. L., Dairy Science
1937	Becker, E. R., Zoology-Ent.	1961	Shaw, R. H., Agronomy
1938	Gilkey, H. J., T. & A. M.	1962	Kirkham, D., Agronomy-Physics
1939	Beister, H. E., Vet. Research	1963	Tauber, O. E., Zoology
1940	Harris, H. M., Zoology-Ent.	1964	Allen, R. S., Biochem.-Biophys.
1941	Clark, N. A., Chemistry	1965	Wilhelm, H. A., Chemistry
1942	Cannon, C. Y., Dairy Husbandry	1966	Frey, K. J., Agronomy
1943	Werkman, C. H., Bacteriology	1967	Dahm, P. A., Zoology-Ent.
1968	Maple, C. G., Computation Ctr.	1987	Horner, H. T., Botany
1969	Melampy, R. M., Animal Science	1988	Beitz, D. C., An. Sci./Biochem.
1970	Weiss, H. J., Engr. Mech.-Math.	1989	Greimann, L. A., Civil/Const. E.

1971	Stewart, R. M., Computer Sci.	1990	Garcia, P. A., Food & Nutrition
1972	Wedin, W. F., Agronomy	1991	Reilly, P. J., Chemical Engr.
1973	Denisen, E. L., Horticulture	1992	Bachmann, M. D., An. Ecology
1974	Pohm, A. V., Electrical Engr.	1993	Finnemore, D.K., Phys/Astron.
1975	Smith, F. G., Botany-Plant Path.	1994	Anderson, L. L., Animal Science
1976	Swenson, M. J., Vet. Physiology	1995	Dolphin, W. E., Zool. & Genetics
1977	Cox, D. F., Statistics	1996	Berger, P. J., Animal Science
1978	Seagrave, R. C., Chem. Engr.	1997	Pierson, B. L., Aero./Engr. Mech.
1979	Willham, R. L., Animal Science	1998	Willson, L.A., Physics/Astron.
1980	Hammond, E. G., Food Tech	1999	Clem, John R., Physics/Astron.
1981	Ulmer, M. J., Zoology	2000	Hill, James C., Chem. Engr.
1982	Roderuck, C. E., Food & Nutrit.	2001	Hall, Richard B., Forestry
1983	Vondra, C. F., Earth Sciences	2002	Lamont, Susan J., Animal Science
1984	Tiffany, L. H., Bot.-Plant Path.	2003	Scanes, Colin G., Animal Science
1985	Bergles, A. E., Mechanical Engr.	2004	Murphy, P., Food Sci. Hum. Nut.
1986	Dellmann, H. D., Vet. Anatomy	2005	Bailey, T. B., Statistics

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

Jane, Jay-lin	Food Science & Human Nutrition (2006)
Kraus, George	Chemistry (2007)
Reilly, Peter	Chemical Engineering (2008)
John Robyt	Biochemistry, Biophysics and Molecular Biology (2009)
Carolyn Komar	Animal Science (2010)

**V. Life members, with 25 or more years of membership (elected 1980 or before)**

<u>Name</u>	<u>Elected</u>	<u>Department</u>	<u>Program (Latest)</u>	<u>Steering Committee</u>	<u>Chair</u>
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
Berger, P. J.	1980	Animal Science	1980	1992-95	1996
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
Ekberg, C.E.	1962	Civil and Const. Engr.;	1965		
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	
Okiishi, T. K.	1980	Mech. Engr.	1981		
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
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, C. A.	1980	Physics & Astronomy	1983		
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
Wheelock, 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 (2005)].**

<u>Name</u>	<u>Elected</u>	<u>Department</u>	<u>Program (Latest)</u>	<u>Steering Committee</u>	<u>Chair</u>
Alekel, Lee	2003	Food Sci. Human Nutr.	2003		
Andreasen, Claire	2003	Veterinary Pathology	2004		
Angelici, R. J.	1989	Chemistry	1990		
Bailey, T. B.	1983	Statistics	1986		2005
Barua, Arun	2004	BBMB	2004		
Birt, Diane	1999	Food Sci. Human Nutr.	2000	2005-2009	
Garcia, P. A.	1985	Food Sci. Human Nutr.	1986		1990
Graves, W. R.	2000	Horticulture	1998		
Gu, Xun	2005	GCDB			
Hill, J. C.	1987	Chemical Engineering	1987		2000
Hill John	R2003	Plant Pathology	2000		
Jane, J.-L.	1990	Food Sci. Human Nutr.	1991	1994-97	
Jolls, K. R.	1996	Chem. Engr.	1996		
Kawaler, Steve	2004	Physics & Astronomy	2004		
Keeney, D.R.	R2005	Agronomy	2005		
Kushner, M.K.	2005	Electrical & Computer Eng.	2005		
Lamont, S. J.	1988	Animal Science	2002	1998-2001	2002
MacDonald, R. S.	2005	Food Sci. Human Nutr.	2005		
Morris, Max	2004	Statistics	2004		
Murphy, P. A.	1986	Food Sci. Human Nutr.	1987	2000-2003	2004
Nolan, L. K.	2005	Vet. Micro. Prev. Med.			
Nonnecke, Gail	2004	Horticulture	2004		
Pruski, Marek		Ames Laboratory			
Reecy, J. M.	2000	Animal Science	2001		
Richt, Jurgen A.	2002	VMPM, NADC	2003		
Robyt, John	R2003	BBMB			
Scott, M. P.	2005	Agronomy			
Snyder, John E.	2002	Ames Laboratory			
Takle, G. S.	1991	Agronomy /Geol. At. Sci.	1992		
Topel, David	2002	Animal Science			
Woo, Keith	2004	Chemistry			
R (reactivated)					

**VII. Associate Members [attended less than three meetings during the calendar year (2005). This group receives meeting announcements, but does not vote for members or officers.**

**\* indicates members who need to attend at least one meeting in 2006 to remain members.**

<u>Name</u>	<u>Elected</u>	<u>Department</u>	<u>Program (Latest)</u>	<u>Steering Committee</u>	<u>Chair</u>
Buss, Jan	2003	BBMB			
Carpenter, Susan	2003	Vet. Micro. Prev. Med.			
Cheville, Norman *	2003	Veterinary Medicine			
Dekkers, J. C.	2000	Animal Science	2001		
Dixon, Philip M.	2002	Statistics			
Doraiswamy, L. K.	1989	Chem. Engr.	1990		
Duvick, D. N.	1992	Agronomy	1995		
Greimann, L. F. *	1985	Civil & Constr. Engr.	1987		1989
Jiles, David	2004	Materials Sci & Eng	2003		
Kanthasamy, A.	2004	Biomedical Sciences	2005		
Komar, Carolyn	2003	Animal Science	2002		
Kraus, G. A.	1988	Chemistry	1990		
Lin, Victor	2004	Chemistry	2004		
Mallapragada, S.K. *	2000	Chemical Engineering	2000		
Martin, S. W.	2002	Material Science/Engr.	2001		
McGee, Dennis	R2004	Plant Pathology			
Minion, Chris	2003	Vet. Micro. Prev. Med.			
Moon Harley *	2003	Veterinary Pathology			
Narasimhan, Balaji *	2002	Chemical Engineering			
Petrich, Jake		Chemistry			
Pohl, N.	2004	Chemistry			
Rajagopalan, R. G.	2002	Aero E. & Engr. Mech.	FIL to 5/04		
Reynolds, D.L.	2004	Veterinary Microbiology			
Ross, R. F. *	1991	Micro. Imm. Prev. Med.	1973		
Rothschild, M. F.	2001	Animal Science	2002		
Rudolphi, T. J. *	1996	Aero. Eng. & Eng. M.	2000		
Ruedenberg, K.	1981	Chemistry	1985		
Tipton, Carl		BBMB			
Verkade, John	2004	Chemistry			
Vleck, Carol *	2003	EEOB	2003		
Wannamuler, Mike	2003	Vet. Micro. Prev. Med.	2004		
Willson, S. J.	1994	Mathematics	1995		
Youngquist, G. R. *	1987	Chemical Engineering	1989		

R (reactivated)

### VIII. Changes to membership in 2005

- A. **New Members:** Xun Gu, M.K. Kushrer, R. MacDonald, L.K. Nolan, M. P. Scott
- B. **Resigned (Irs), moved (m), deceased (d), or dropped (dr) [Associate members dropped because they attended no meetings in 2004r 2005 ]:**  
Paul Flakoll (d), F. C. Parrish (dr), K. E. Windom (dr), C.E. Roderuck (Irs)
- C. **To Life Membership [elected 1980 or before]:** P. J. Berger, T. K. Okiishi, C.A. Swensen
- D. **Associate to Active [by attending 3 meetings]:** L. Alekel, R. J. Angelici, John Hill, M. Pruski, G. S. Takle
- D. **Active to Associate [by not attending 3 meetings]:** Jan Buss, D. N. Duvick, David Jiles, A. Kanthasamy, G. A. Kraus, Victor Lin, R. J. Martin, Dennis McGee, Chris Minion, Jake Petrich, N. Pohl, D. L. Reynolds, M. F. Rothschild, Carl Tipton, John Verkade, Mike Wannamuler, S. J. Willson
- E. **Re-activated:** D. Keeney

### IX. Dinner Programs presented during 2005

- |              |  |
|--------------|--|
| January 10   | Anumatha Kanthasamy<br>Oxidative Stress and Cell Death Signaling Mechanisms in Parkinson's Disease   |
| February 14  | Kenneth R. Jolls<br>The Art of Thermodynamics – now on sale for 37 cents   |
| March 21     | Keith Woo<br>Chemistry and Natural Selection – Application of Molecular Evolution  |
| April 11     | Nicola Pohl<br>New Tools to Decipher the Glycocode   |
| May 9        | Marek Pruski<br>The nuts and bolts of modern solid-state NMR spectroscopy; applications of NMR to the studies of heterogeneous catalysts and nanoscale materials |
| September 12 | Mark J. Kushner<br>What Might You Want to do with Plasmas?: Materials Processing   |
| October 10   | Ruth S. MacDonald<br>Protective roles of phytoestrogens in cancer: Evidence from transgenic mouse  |

models of breast, prostate and colon cancer

- November 14 Paul Scott  
Transgenes in corn improvement: Impacts and potential
- December 12 Dennis Keeney  
Sustainability is Not an Option

**X. Financial statement, balance as of December 31, 2005**

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

Year-end balance for 2004: \$294.74

Year-end balance for 2005: \$740.24

Interest income in 2005: \$10.36

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.

The membership voted to increase the dinner fee to \$18 beginning with the April, 2005 meeting. The increase of the dinner fee is necessary because the Union raised our dinner price in April, 2004, and again in September, 2004. Currently, the Union's charge is \$14.75 per dinner. As a consequence, the Osborn Club has not been able to pay its monthly expenses, the primary expense being the cost of the speaker's meal. The 2004 year-end balance of funds for the Osborn Club, on deposit at First National Bank, was less than \$300.

Beginning in February, 2005, the Union has changed the menu to include a second, vegetarian, entrée and a desert, without increasing the dinner price. The chair brought the media equipment from his office to minimize other 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 Friday prior to the Monday meeting. Members are liable for reservations not canceled by noon the Friday 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 four 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 2005, the amount charged for the dinner was raised from \$15.00 per person to \$18.00.

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.