

**2006 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., Zoology-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, P. A., Civil/Const. E.
1971	Stewart, R. M., Computer Science	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/Astronomy
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/Astronomy
1980	Hammond, E. G., Food Tech	1999	Clem, John R., Physics/Astronomy
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., Fd Sci/Human Nutrit.
1986	Dellmann, H. D., Vet. Anatomy	2005	Bailey, T. B. Statistics
		2006	Birt, Diane F. Fd. Sci./Human Nut.

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

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 1981 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
<u>Name</u>	<u>Elected</u>	<u>Department</u>	<u>Program (Latest)</u>	<u>Steering Committee</u>	<u>Chair</u>

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		
Reilly, Peter	1979	Zoology & Genetics	1966		
Robertson, D. S.	1959	Chemical Engineering	1999	2004-2008	1991
Rowley, W. A.	1973	Entomology	1982	1982-84	
Ruedenberg, K.	1981	Chemistry	1985		
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 (2006)].

<u>Name</u>	<u>Elected</u>	<u>Department</u>	<u>Program (Latest)</u>	<u>Steering Committee</u>	<u>Chair</u>
Bailey, T. B.	1983	Statistics	1986		2005
Birt, Diane	1999	Food Sci/ Human Nutr.	2000	2005-2006	2006
Bonning, Byrony	2005	Horticulture	2006		
Dixon, Philip M.	2002	Statistics	2006		
Ellinwood, Mathew	2006	Animal Science	2007		
Garcia, P. A.	1985	Food Sci./Human Nutr.	1986		1990
Hill, J. C.	1987	Chemical Engr.	1987		2000
Hogberg Maynard	2006	Animal Science	2006		
Jane, J.-L.	1990	Food Sci./Human Nutr.	2006	1994-97	
Jolls, K. R.	1996	Chem. Engr.	2006		
Keeney, D.R.	Reactivated 2005	Agronomy	2005		
Komar, Carolyn	2003	Animal Science	2002		
Lamont, S. J.	1988	Animal Science	2002	1998-2001	2002
Nikolau, Basil	2006	Biochem/ Molec. Biology			
Pohl, Nicola	2004	Chemistry	2005		
Richt, Jurgen A.	2002	VMPM, NADC	2003		
Robyt, John	Reactivated 2003	Biochemistry, Biophysics and Molecular Biology			
Sappington, Thomas	2006	USDA Ag. Research			
Scott, M. P.	2005		2005		
Spurlock, Diane	2006	Animal Science	2006		
Spurlock, Michael	2006	Food Sci./Human Nutrition	2006		
Topel, David	2002	Animal Science			
Woo, Keith	2004	Chemistry	2005		

**VII. Associate Members [attended fewer than three meetings during the calendar year (2006)].
This group receives meeting announcements, but does not vote for members or officers.
* indicates members who need to attend at least one meeting in 2007 to remain members.**

<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		
Andreason, Claire	2003	Veterinary Pathology	2004		
Angelici, R.J.	1989	Chemistry	1990		
Barua, Arun*	2004	Biochem, Biophys, Molec. Biology	2004		
Dekkers, J. C.	2000	Animal Science	2001		
Doraiswamy, L. K.*	1989	Chem. Engr.	1990		
Graves, W.R	2000	Horticulture	1998		
Gu, Xun*	2005				
Hill, John	Re-2003	Plant Pathology	2000		
Kanthasamy, A.*	2004	Biomedical Sciences	2005		
Kawaler, Steve	2004	Physics & Astronomy	2004		
Kraus, G. A.	1988	Chemistry	1990		
Kushner, M.K.*	2005		2005		
Lin, Victor*	2004	Chemistry	2004		
Martin, Richard	2003	Biomedical Sciences	2002		
Martin, S. W.*	2002	Material Science/Engr.	2001		
MacDonald, R.S.	2005	Food Sci. & Human Nutr.	2005		
McGee, Dennis*	Re-2004	Plant Pathology			
Minion, Chris	2003	Veterinary Microbiology & Preventive Medicine			
Moon Harley	2003	Veterinary Pathology			
Morris, Max	2004	Statistics	2004		
Murphy, P.A.	1986	Food Sci. & Human Nutr.	1987		2004
Nolan, L.K.	2005	Biomedical Sciences	2006		
Nonnecke, Gail	2004	Horticulture	2004		
Pruski, Marek		Ames Lab	2005		
Rajagopalan, R. G.*	2002	Aero E. & Engr. Mech.	FIL to 5/04		
Reecy, J.M.	2000	Animal Science	2001		
Reynolds, D.L.*	2004	Veterinary Microbiology			
Rothschild, M. F.	2001	Animal Science	2002		
Rudolphi, T.J.	1996	Aero Eng and Eng M	2000		
Snyder, John E.	2002	Ames Lab			
Takle, G.S.	1991	Agronomy/Geol.At. Science	1992		
Tipton, Carl	2003	Biochemistry, Biophysics, & Molecular Biology			
Verkade, John	2004	Chemistry			
Wannemuehler, Mike*	2003	Veterinary Microbiology & Preventative Medicine	2004		
Willson, S. J.	1994	Mathematics	1995		

VIII. Changes to membership in 2006

- A. **New Members:** Maynard Hogberg, Michael Spurlock, Diane Moody-Spurlock, Matthew Ellinwood, Thomas Sappington, Basil Nikolau

- B. **Resigned (rs), moved (m), deceased (d), or dropped (dr) [Associate members dropped because they attended no meetings in 2005 or 2006]:** J. Buss (m), C. Carpenter (dr), N. Cheville (dr), D.N. Duvick (d), L.F. Greimann (dr), D. Jiles (m), S.K. Mallapragada (dr), B. Narasimhan (dr), J. Petrich (dr), R.F. Ross (dr), C. Vleck (dr), G. R. Youngquist (dr)
- C. **To Life Membership [elected 1980 or before]:** K. Ruedenberg
- D. **Associate to Active [by attending 3 meetings]:** P. Dixon, C. Komar, N. Pohl
- D. **Active to Associate [by not attending 3 meetings]:** L. Alekel, C. Andreason, R.J. Angelici, A. Barua, W.R. Graves, Xun Gu, John Hill, S. Kawaler, M.K. Kushner, R.S. MacDonald, M. Morris, P.A. Murphy, L.K. Nolan, G. Nonnecke, M. Pruski, J.M. Reecy, J. E. Snyder, G.S Takle
- E. **Re-activated:** None

IX. Dinner Programs presented during 2006

January 09	Jay-lin Jane Starch Structure and Its Impact on Biorenewable Energy Production
February 13	Philip Dixon Using a statistical model to better estimate the probability of a rare event
March 20	Byrony Bonning Of Baculoviruses, Basement Membranes, and Dead Bugs
April 10	Lisa Nolan Plasmids in APEC Virulence and Antimicrobial Resistance: An Overview
May 8	John Verkade Phun with Phosphorus Phootballs
September 11	Michael Spurlock Fat and Fat Cells: A New Look at an Old Enemy
October 09	Maynard Hogberg The Future of Animal Agriculture in Iowa
November 13	Diane Moody-Spurlock ASB15 Gene Expression and Beyond

X. Financial statement, balance as of December 31, 2006

First National Bank, Ames, Iowa: Money Market Account No 73814.

Starting Balance: \$740.24

Year-end balance for 2006: \$1,000.02

The year-end balance represents the funds on deposit at the bank, corrected for the amount of checks, written in January for payment of the Memorial Union for the December meeting meals and associated costs, which had been billed by year-end.

Our dinner fee was raised in October 2006 to \$20.00 because the Memorial Union raised the dinner price in September 2006 to \$13.00 per dinner (without dessert). We began to order dessert bars to be available on the buffet for \$9.60/dozen in October 2006. In addition, for Fall 2006 the Memorial union added a flat charge of \$20.00 for having the bar open during the reception for 30 minutes; for academic year 2007 they anticipate raising this to a flat rate of \$40.00. At this dinner price, other fees and attendance level; attendee contributions 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.

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 four (this had somehow evolved to 5 members but was corrected back to 4 members for 2007) 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 responsible for leading their research program. By vote of the membership in 2005 a requirement of being at ISU for one year was removed from the criteria.

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 September 2006, the amount charged for the dinner was raised from \$18.00 per person to \$20.00.

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. In addition at the time of this submission the 2005 report had not been finalized. Otherwise the historical record appears to be complete.

XII. Chairperson's Observations (edited from comments going back at least as far as 2002)

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 2005 chairperson, Ted Bailey. 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 2006 continued two trends for the Osborn Research Club. A highlight is the nomination and election of 6 new member of the Osborn Research Club, a promising trend for the club resulting in 46 Life Members, 23 Active Members and 36 Associate Members as we go into 2007. Three associate members returned to active status at the end of 2006. However, 18 active

members went to associate status due to attending fewer than 3 meetings this year. Average meeting attendance of members was at 28 attendees. 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 2007!

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 28 members in attendance means that we continue to have less than 25% of our membership, on average, attending any meeting.

I propose we continue to try in 2007 to follow earlier chairs suggestions to keep the club strong and vital, continuing its excellent tradition of 87 years. To do this 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. Since all new members in 2006 were in biological sciences we especially need new members in the natural sciences and engineering
4. 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 2007 chairperson, Jay-Lin Jane, 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 2007.

Respectfully submitted,

Diane F. Birt
Chairperson, 2006