

**2013 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	1952	Buchanan, R. E., Bacteriology
1921	Wilkinson, J. A., Chemistry	1953	Hendrickson, G. O., Zoology-Ent.
1922	Bemis, H. E., Vet. Medicine	1954	Gwynne, C. S., Geology
1923	Wellhouse, W. H., Zoology-Ent.	1955	Murphy, G., Nuclear Eng.
1924	Emerson, P. C., Farm Crops-Soils	1956	Bakke, A. L., Botany
1925	Woodrow, J. W., Physics	1957	Hamilton, H. L., Zoology-Ent.
1926	Gilman, J. C., Botany	1958	Craft, W. A., Animal Science
1927	Burnett, L. C., Farm Crops	1959	Fox, G. W., Physics
1928	Hammer, B. W., Dairy Bact.	1960	Jacobson, N. L., Dairy Science
1929	Rickey, R. W., Horticulture	1961	Shaw, R. H., Agronomy
1930	Brown, F. E., Chemistry	1962	Kirkham, D., Agronomy-Physics
1931	Lindstrom, W. E., Genetics	1963	Tauber, O. E., Zoology
1932	Knight, H. H., Zoology-Ent.	1964	Allen, R. S., Biochem.-Biophys.
1933	Murray, C., Vet. Research	1965	Wilhelm, H. A., Chemistry
1934	Guthrie, J. E., Zoology-Ent.	1966	Frey, K. J., Agronomy
1935	Snedecor, G. W., Statistics	1967	Dahm, P. A., Zoology-Ent.
1936	Lush, J. L., Animal Science	1968	Maple, C. G., Computation Ctr.
1937	Becker, E. R., Zoology-Ent.	1969	Melampy, R. M., Animal Science
1938	Gilkey, H. J., T. & A. M.	1970	Weiss, H. J., Engr. Mech.-Math.
1939	Beister, H. E., Vet. Research	1971	Stewart, R. M., Computer Science
1940	Harris, H. M., Zoology-Ent.	1972	Wedin, W. F., Agronomy
1941	Clark, N. A., Chemistry	1973	Denisen, E. L., Horticulture
1942	Cannon, C. Y., Dairy Husbandry	1974	Pohm, A. V., Electrical Engr.
1943	Werkman, C. H., Bacteriology	1975	Smith, F. G., Botany-Plant Path.
1944	Holl, D. L., Mathematics	1976	Swenson, M. J., Vet. Physiology
1945	Hewitt, E. A., Vet Physiology	1977	Cox, D. F., Statistics
1946	Richardson, C. H., Zoology-Ent.	1978	Seagrave, R. C., Chem. Engr.
1947	Carr, P. H., Physics	1979	Willham, R. L., Animal Science
1948	Murphy, H. C., Bot.-Farm Crops	1980	Hammond, E. G., Food Tech
1949	Bird, E. W., Food Technology	1981	Ulmer, M. J., Zoology
1950	Loomis, W. E., Botany	1982	Roderuck, C. E., Food & Nutrition
1951	Earls, L. T., Physics	1983	Vondra, C. F., Earth Sciences

1984	Tiffany, L. H., Bot.-Plant Path.	1999	Clem, J. R., Physics/Astronomy
1985	Bergles, A. E., Mechanical Engr.	2000	Hill, J. C., Chem. Engr.
1986	Dellmann, H. D., Vet. Anatomy	2001	Hall, R. B., Forestry
1987	Horner, H. T., Botany	2002	Lamont, S. J., Animal Science
1988	Beitz, D. C., An. Sci./Biochem.	2003	Scanes, C. G., Animal Science
1989	Greimann, P. A., Civil/Const. E.	2004	Murphy, P., Fd. Sci./Human Nut.
1990	Garcia, P. A., Food & Nutrition	2005	Bailey, T. B., Statistics
1991	Reilly, P. J., Chemical Engr.	2006	Birt, D. F., Food. Sci./Human Nut.
1992	Bachmann, M. D., An. Ecology	2007	Jane, J.-L., Food Sci./Human Nut.
1993	Finnemore, D. K., Phys./Astronomy	2008	Kraus, G. A., Chemistry
1994	Anderson, L. L., Animal Science	2009	Woo, L. K., Chemistry
1995	Dolphin, W. E., Zool. & Genetics	2010	Philip Dixon, Statistics
1996	Berger, P. J., Animal Science	2011	James Reecy, Animal Science
1997	Pierson, B. L., Aero./Engr. Mech.	2012	Kan Wang, Agronomy
1998	Willson, L. A., Physics/Astronomy	2013	David Grewell, Ag & Biosystems Eng.

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

Philip Dixon, Statistics (2012)
 Kan Wang, Agronomy (2012)
 James Reecy, Animal Science (2013)
 Cynthia Jenks, Ames Lab (2015)
 David Grewell, Ag & Biosystems Engineering (2016)

V. Life Members, with 25 or more years of membership (elected 1986 or before) or served as Chair person for one year

<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
Bailey, T. B.	1983	Statistics	1986		2005
Baumann, E. R.	1961	Civil & Const. Engr.	1975		
Beitz, D. C.	1976	Animal Sci./Biochem.	1996	1979-1982	1988
Berger, P. J.	1980	Animal Science	1980	1992-1995	1996
Boylan, D. R.	1960	Chemical Engr.	1961		
Cox, D. F.	1963	Statistics	1983	1975-1978; 2001-2004	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
Grewell, D.	2007	Ag. & Biosystems Eng.	2014	2010-2016	2013
Hall, R. B.	1977	Forestry	1996	1997-2000	2001
Hammond, E. G.	1959	Food Sci./Human Nutr.	1964		1980
Hill, J. C.	1987	Chemical Engineering	1987		2000
Horner, H. T.	1969	Botany	1981	1977-1980	1987
Horowitz, J.	1972	Biochem. & Biophys.	1996		
Jacobson, N. L.	1949	Animal Science	1953		1960
Jane, J.-L.	1990	Food Sci./Human Nutr.	2006	1994-1997; 2005-2006	2007

<u>Name</u>	<u>Elected</u>	<u>Department</u>	<u>Program (Latest)</u>	<u>Steering Committee</u>	<u>Chair</u>
Kraus, G. A.	1988	Chemistry	2003	2004-2008	2008
Lamont, S. J.	1988	Animal Science	2010	2010-2013	2011
McGee, T. D.	1967	Materials Sci. Engr.	1968	1973-1976	
Okiishi, T. K.	1980	Mech. Engr.	1981		
Peterson, P. A.	1959	Agronomy/Zool/Gen.	1962	1968-1971	
Pierson, B. L.	1977	Aerospace Engr. & Engineering Mechanics	1995	1982-1985	1997
Pletcher, R. H.	1977	Mechanical Engineering	1979	1996-1999	
Pohm, A. V.	1961	Electrical Engr.	1982		1974
Read, A. A.	1964	Electrical Engr.	1964		
Reecy, J. M.	2000	Animal Science	2010	2010-2013	2011
Reilly, Peter	1979	Zoology & Genetics	1966	2004-2008	
Robertson, D. S.	1959	Chemical Engineering	1999		1991
Ruedenberg, K.	1981	Chemistry	1985		
Seagrave, R. C.	1972	Chemical Engineering	2001		1978
Serovy, G. K.	1961	Mechanical Engineering	1963		
Shaw, R. H.	1957	Agronomy	1958		1961
Smith, F. G.	1950	Botany	1954	1965-1968	1975
Stewart, R. M.	1959	Computer Science	1966		1971
Swenson, M. J.	1960	Vet. Phys. & Pharm.	1966	1970-1973	1976
Swenson, R. W.	1975	Botany	1976		
Tollefson, J. J.	1977	Entomology	2001	1999-2002	
Trenkle, A. H.	1977	Animal Science	1978	1995-1998	
Vondra, C. F.	1972	Geol. & Atmos. Sci.	1993	1978-1981	1983
Wang, K.	2008	Agronomy	2008	2009-2012	2012
Wheelock, T. D.	1967	Chemical Engineering	1968	1993-1996	
Wilder, D. R.	1961	Materials Sci. Engr.	1966		
Willham, R. L.	1969	Animal Science	2002	1976-1979	1979
Willson, L. A.	1977	Physics & Astronomy	1993	1980-1983	1998
Young, D. F.	1962	Aerospace Engr. & Engineering Mechanics	1962	1972-1975	

VI. Active Members for 2013 (attendance at 3 of the 8 meetings per calendar year 2013)

<u>Name</u>	<u>Elected</u>	<u>Department</u>	<u>Program (Latest)</u>	<u>Steering Committee</u>	<u>Chair</u>
Deitz, Krysta	2013	Veterinary Medicine	2013		
Gordon, M.	2008	Chemistry /Ames Laboratory	2008		
Graves, W. R.	2000	Horticulture	1998		
Jenks, C.	2009	Ames Laboratory	2009	2011-2015	
Jiles, D.C.	Re-2011	Computer & Elect. Eng.	2011		
Morris, M.	2004	Statistics	2004		
Sappington, T.	2006	USDA Ag. Research	2007		
Topel, D.	2002	Animal Science	2002		
Zhang, Q.-J.	2012	Veterinary Microbiology & Preventive Medicine	2012		

Wilson, David 2013 History 2013

VII. Associate Members for 2013 (attended fewer than three meetings during the calendar year 2013). This group receives meeting announcements, but does not vote for members or officers.

<u>Name</u>	<u>Elected</u>	<u>Department</u>	<u>Program (Latest)</u>	<u>Steering Committee</u>	<u>Chair</u>
Beattie, G.	2009	Plant Pathology	2009		
Bonning, B.	2005	Entomology	2006	2007-2010	
Dickson, J.*	2007	Animal Science	2010		
Hogberg M.*	2006	Animal Science	2006		
Jolls, K. R.	1996	Chemical Engineering	2006		
Kawaler, S.	2004	Physics & Astronomy	2004		
Keeney, D. R.	Re-2005	Agronomy	2005		
MacDonald, E. *	2012	Mechanical Engineering	2012		
Martin, R.*	2003	Biomedical Sciences	2002		
Miller, W. A.*	2008	Plant Path.; Biochemistry	2008		
Minion, C.*	2003	Veterinary Microbiology & Preventive Medicine	2010		
Nikolau, B.*	2006	Biochem/ Molec. Biology	2007		
Robyt, J.*	Re-2003	Biochemistry, Biophysics and Molecular Biology		2006-2009	
Rothschild, M. F.*	2001	Animal Science	2002		
Schnable, P.*	2009	Agronomy	2009		
Sebranek, J.	2007	Animal Science			
Singh, R.*	2008	College of Veterinary Med.			
Verkade, J.	2004	Chemistry	2006		
Willson, S. J.	1994	Mathematics	1995		

* Indicates members who need to attend at least one meeting in 2014 to remain members.

VIII. Changes to Membership in 2013 for 2014

A. New Members:

Krysta Deitz
David Wilson

B. To Life Membership [elected 1986 or before or served as Chair person for one year]:

David Grewell

C. Associate to Active for 2013 [by attending 3 meetings]:

Max Morris

D. Active to Associate for 2013 [by attending less than 3 meetings]:

Gwyn Beatty
Bryony Bonning

E. Resigned (rs), moved (m), deceased (d), or dropped (dr) [associate members dropped because they attended no meetings in 2012 and 2013]:

IX. Dinner Lecture Programs Presented During 2012

- February 11, 2013 Krysta Deitz, College of Veterinary Medicine
“Companion animals as spontaneous models for human cancers?”
- March 11, 2013 Hongwei Xin, Agricultural and Biosystems Engineering
“A Comprehensive Assessment of Aviary Laying-Hen Housing System in the Midwest”
- April 8, 2013 David B. Wilson, Department of History
“Messages from the History of Science”
- September 9, 2013 Joseph Shinar, Department of Physics and Astronomy
“Recent advances and challenges in organic light-emitting diode (OLED) science and technology”
- October 14, 2013 Costas M. Soukoulis, Ames Lab. and Dept. of Physics
“Metamaterials: From Basic Research and Applications”
- November 11, 2013 V. V. Raman, Rochester Institute of Technology, Emeritus Professor of Physics and Humanities
“The Human-centered Universe: some speculations in current cosmology”
- December 9, 2013 Eric Cochran, Department of Chemical and Biological Engineering
“Thermoplastic elastomers from multifunctional biomonomers — “Green” materials without compromise?”
- January 13, 2014 Byron Brehm-Stecher, Department of Food Science & Human Nutrition
“Natural and Value-Added Antimicrobials for Foods and Food Processing Surfaces ”

X. Financial Statement, Balance as of December 31, 2012

First National Bank, Ames, Iowa: Account No. 233314.
Starting Bank Balance as of January 31, 2013: \$430.08

Year-End Bank Balance for December 31, 2013: \$899.56

Month	Location	Items	Expenses (\$)	Income (\$)	Balance by month (\$)
Feb, 2013	MBB Atrium				
		Cater (Arcadia Cafe)	295.27		
		Dinner paid by members		410.00	114.73
Mar, 2013	MBB Atrium				
		Cater (Arcadia Cafe)	239.20		
		Dinner paid by members		280.00	40.80
Apr, 2013	MBB Atrium	Chair/table rental	113.00		
		Cater (Arcadia Cafe)	345.75		
		Dinner paid by members		480.00	21.25
Sep, 2013	MBB Atrium	Dinner (Arcadia Café)	258.21		
		Dinner paid by members		320.00	61.79
Oct, 2013	MBB Atrium	Dinner (Arcadia Café)	307.72		
		Dinner paid by members		400.00	92.28
Nov, 2013	MBB Atrium	Dinner (Arcadia Café)	355.20		
		Dinner paid by members		400.00	44.80
Dec, 2013	MBB Atrium				
		Dinner (Arcadia Café)	246.17		
		Dinner paid by members		340.00	93.83
Jan, 2014	MBB Atrium	Chair/table rental	117.00		
		Dinner (Arcadia Café)	268.45		
		Dinner paid by members		300.00	
Total 2013			2,545.97	2,930.00	384.03

We have spent a total \$2,545.97 for 8 events in 2013. The total income collected from the members was \$2,930.00. We accrued a small surplus in 2013 (plus \$384.03) in 2013.

XI. General Rules of the Osborn Research Club

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

A motion of announcing lectures to the university community to make Osborn Club visible on campus was made by Jim Hill and approved by the Steering Committee in October 2007. Titles, speakers, time, and location of Osborn Club lectures were announced in ISU Calendar and Inside Iowa State.

To be an Active Member, attendance at three of the eight 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. The Chairperson is granted for Life Membership once the service is completed.

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.

The following item was voted on by the membership in 2013.

A change to the by-laws to expand membership base was made to read:

“Criteria to consider in nominating a new member are as follows: (a) that the research field be clearly in the natural or physical sciences or **study there of;**”

Previous Changes to the Club Rules.

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

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 5:00 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.

In September 2008, the amount charged for the dinner was raised from \$18.00 per person to \$22.00.

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. Chairperson’s Observations

Speakers:

In 2013, a number of speakers from social or political sciences were invited. Many members welcome this variation. This provides opportunities to interact with faculty members in non-natural science areas on campus and to learn a wide range of interesting topics.

I typically invited speakers at least 3 months ahead of time. I usually select speakers from ISU press releases, which often provides a nice lead on who is hot on campus. Once the candidate agreed to speak, I will follow up with details and reminders. After the lecture, I will send an email to thank their efforts and time.

Meeting venue and meal costs:

Because the rental for the MBB Atrium is low and the classroom 1420 is nice for lecture, we

continued our monthly meetings there. Dinner and beverages were catered by Arcadia café, which allowed us to lower dinner fees to \$20 per attendee.

Monthly attending list and memberships:

Compared to the periods from 2000-2008, the monthly attendances of recent years have been declining. In 2010, monthly average attendance was 19, ranged from 10-36 participants. In 2011, monthly average attendance was 16.5, ranged from 11-21 participants. In 2012, monthly average attendance was 22, ranged from 16-31 participants. In 2013, monthly average attendance was 18.5, ranged from 14-24 participants.

In the year 2013, we had nomination and election of two new members of the Osborn Research Club. We had a total of 49 Life Members, 10 Active Members, and 19 Associate Members as we go into 2014.

We need to put more efforts on actively recruiting new members in 2014. One observation is that many young members and active researchers tend not to come to monthly meetings. After two years without attending one meeting, these members are dropped out of the membership roll. One of reasons was that they lack time and the club lectures are not relevant to their own research. We need to continue to identify established faculty who are active in multi-disciplinary research areas.

To continue the Osborn tradition of 90 years, we shall 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. Call up a fellow member and invite him or her to attend with you.

Administrative support:

In 2012, Christine Strohm Ph.D. (Spouse) provided me with full administrative support, including monthly announcement, reservations, and meal arrangements. I would not be able to do the Chairperson job properly if there were no support from her. I am grateful for her excellent work overall especially during the period of identifying catering possibilities.

Respectfully submitted,



David Grewell
Chairperson, 2013

June 4, 2014