

**2011 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		

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

2010

Keith Woo (2011)
Philip Dixon (2012)
Kan Wang (2012)

2011

Philip Dixon Statistics (2012)
Kan Wang Agronomy (2012)
James Reecy Animal Science (2013)

V. Life Members, with 25 or more years of membership (elected 1986 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
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
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	1977-1980	1987
Horowitz, J.	1972	Biochem. & Biophys.	1996		
Jacobson, N. L.	1949	Animal Science	1953		1960
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

<u>Name</u>	<u>Elected</u>	<u>Department</u>	<u>Program (Latest)</u>	<u>Steering Committee</u>	<u>Chair</u>
Pollak, E.	1975	Statistics	1986		
Read, A. A.	1964	Electrical Engr.	1964		
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
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 2012 (attendance at 3 of the 9 meetings per calendar year 2011)

<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	
Gordon, M.	2008	Chemistry /Ames Laboratory	2008		
Grewell, D.	2007	Ag. Biosyst. Eng.	2007		
Hill, J. C.	1987	Chemical Engineering	1987		2000
Jane, J.-L.	1990	Food Sci./Human Nutr.	2006	1994-1997; 2005-2006	2007
Jenks, C.	2009	Ames Laboratory	2009		
Jiles, D.C.	Re-2011	Computer & Elect. Eng.	2011		
Jolls, K. R.	1996	Chemical Engineering	2006		
Kraus, G. A.	1988	Chemistry	2003	2004-2008	2008
Lamont, S. J.	1988	Animal Science	2002	1998-2001	2002
Reecy, J. M.	2000	Animal Science	2010	2010-2013	2011
Sappington, T.	2006	USDA Ag. Research	2007		
Topel, D.	2002	Animal Science			
Wang, K.	2008	Agronomy	2008	2009-2012	2012

VII. Associate Members for 2012 (attended fewer than three meetings during the calendar year 2011). 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>
Birt, D.	1999	Food Sci/ Human Nutr.	2000	2005-2006	2006
Dickson, J.*	2007	Animal Science	2010		
Dixon, P. M.	2002	Statistics	2010	2009-2012	20010
Doraiswamy, L. K.*	1989	Chemical Engineering	1990		
Graves, W. R.	2000	Horticulture	1998		
Hogberg M.	2006	Animal Science	2006		
Kawaler, S.*	2004	Physics & Astronomy	2004		
Keeney, D. R.	Re-2005	Agronomy	2005		
Martin, R.	2003	Biomedical Sciences	2002		
Miller, W. A.	2008	Plant Path.; Biochemistry	2008		
Minion, C.*	2003	Veterinary Microbiology & Preventive Medicine	2010		
Morris, M.*	2004	Statistics	2004		
Nikolau, B.	2006	Biochem/ Molec. Biology	2007		
Roby, 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.			
Takle, G. S.*	1991	Agronomy/Geol. At. Science	1992		
Verkade, J.	2004	Chemistry	2006		
Willson, S. J.	1994	Mathematics	1995		
Woo, K.	2004	Chemistry	2005	2008-2011	2009

* Indicates members who need to attend at least one meeting in 2010 to remain members.

VIII. Changes to Membership in 2011 for 2012

- A. New Members: None
David Jiles reinstated Jan. 2011

Resigned (rs), moved (m), deceased (d), or dropped (dr) [associate members dropped because they attended no meetings in 2010 and 2011]:

G. Rao (dr)(asked to be dropped due to lack of time, 4/11)
Robert Angelici (dr)
Nicola Pohl (dr)
Marek Pruski (dr)
M. Paul Scott (dr)
Pat Thiel (dr)

- B. To Life Membership [elected 1986 or before]: None

- C. Associate to Active for 2012 [by attending 3 meetings]:
Jim C. Hill
Kenneth R. Jolls
George A. Kraus

- D. Active to Associate for 2012 [by not attending 3 meetings]:
Diane Birt
Philip M. Dixon
William R. Graves

Maynard G. Hogberg
Dennis R. Keeney
John Robyt
L. Keith Woo

IX. Dinner Lecture Programs Presented During 2010

- January 11, 2010 Diane Debinski, Ecology, Evolution and Organismal Biology
“Montane Meadows as Indicators of Climate Change”
- February 8, 2010 Philip Dixon, Department of Statistics, Iowa State University
“Why the buzz about Bayes?”
- March 8, 2010 Jim Reecy, Department of Animal Science
“India’s White Revolution – How to supply the protein needs of a developing country in the face of climate change”
- April 12, 2010 Chris Minion, Veterinary Microbiology and Preventative Medicine
“E. coli O157:H7: A Sticky Situation”
- September 13, 2010 Jim Dickson, Department of Animal Science, Iowa State University
“Salmonella in Eggs – Who, What, When, Where and WHY?”
- October 11, 2010 K. J. Franz, Department of Geological and Atmospheric Sciences
“Late 20th century trends in Iowa watersheds: an assessment of observed and modeled hydrologic data”
- November 8, 2010 John Lajoie, Department of Physics and Astronomy
“Probing Nucleon Structure with Spin at RHIC”
- December 13, 2010 Alex Travasset, Department of Physics and Astronomy
“Polymers, Nanoparticles and Video Games”

Dinner Lecture Programs Presented During 2011

- January 10 Theresa Windus, Department of Chemistry
“Environmental Chemistry with a High Performance Kick”
- February 14 Michael Cho, Department of Biomedical Sciences
“AIDS Vaccine Development: Designing MPER’s New Clothers”
- March 21 Gaya Amarasinghe, Department of Biochemistry, Biophysics and Molecular Biology
“Mechanisms of viral escape from host immunity”
- April 11 Balaji Narasimhan, Vlasta Klima Balloun Professor and Associate Dean of Research,
Department of Chemical and Biological Engineering
“Pathogen Mimicry: A Viable Design Strategy for Prevention and Treatment of Respiratory Infectious Diseases”
- September 12 Jason Ross, Assistant Professor, Department of Animal Science

“Genetic Modification of Pigs to Improve Agriculture and Biomedicine”

- October 10 Shihwu Sung, Professor in Environmental Engineering, Department of Civil, Construction and Environmental Engineering
- November 14 “New frontier of biological wastewater nutrient removal”
David C. Jiles, Distinguished Professor and Chair, Electrical and Computer Engineering
“Deep Brain Stimulation using Magnetic Fields in Transcranial Magnetic Stimulation”
- December 12 Monica H. Lamm, Associate Professor, Department of Chemical and Biological Engineering
“Computer Simulations of Nanomaterials at Large”
- January 9, 2012 Aaron D. Sadow, Associate Professor of Chemistry, Department of Chemistry, Research Scientist, U.S. DOE Ames Laboratory, Iowa State University
“Metal Compounds for Synthetic Chemistry and Energy-Related Catalysis”

X. Financial Statement, Balance as of December 31, 2011

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

Starting Bank Balance: \$1117.12

Year-End Bank Balance for 2009: \$895.63

The year-end bank balance represents the funds on deposit. The low balance reflects an over payment to Ames Best Pies for the December meeting. We have a credit of \$165.60 and \$15.00, cash bringing our financial resources to \$1061.23. We incurred expenses for name tags (\$50.28) and new checks (\$12.75).

The dinner fee was increased to \$22.00 in 2008 to cover the costs of meals and media equipment usage fees and the dinner cost for the speaker. Speakers used their own computer to minimize the costs.

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 two weeks prior to each meeting and 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. Because one of the Steering Committee members resigned early in 2007 and left Iowa State, we have been electing two new members in some years. 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.

The following item was voted on by the membership in December 2010.

1. The membership unanimously approved a change to the by-laws that Chair be awarded life member status upon completion of their year of service. This recommendation had the support of the Steering Committee.

The following items were voted on by the membership in July 2008.

1. The membership voted to change the by-laws to eliminate the need for the Steering Committee to approve new members. It was proposed that the Chair review the application (signed by two active members) and send both the application and the candidate's vita directly to the members for a vote. This recommendation had the support of the Steering Committee.
2. The membership voted to change the by-laws to eliminate the need for the Steering Committee to approve the reinstatement of former members. It was proposed that the Chair have the ability to directly reinstate former members. This recommendation had the support of the Steering Committee.
3. The membership voted for expansion of the membership pool to allow us to consider members of the Professional and Scientific community for membership. This recommendation had the support of the Steering Committee.
4. The membership voted to eliminate the May meeting. Attendance has been low because it is held after spring semester final exams are over and many members are out of town. For the May 2008 meeting, expenses exceeded contributions. Elimination of the May meeting would give us four lectures in the fall and four lectures in the spring. This recommendation had the support of the Steering Committee.

The Steering Committee also voted to change the site of the Osborn Club Meeting to the atrium in the Molecular Biology Building and have the dinner catered by Ames Best Pies, with the lecture in the lecture hall (1420 MBB).

Previous Changes to the Club Rules.

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.

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 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 (edited from comments going back at least as far as 2002)

I formally thank our outstanding 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 outside of our usual disciplinary boxes.

The Steering Committee members provided excellent support, nominations and advice. Both of us thank the secretaries who handled most of the day-to-day activities. They were Jeanette LaGrange of the Department of Statistics in 2010 and Lori Miller of the Biotechnology Center in 2011.

During 2010, various members requested that we meet in a location where we could get drinks before or during dinner. The Chair and Steering Committee considered various places. The Memorial Union was substantially more expensive than either Molecular Biology or meeting rooms at local hotels. The Steering Committee selected the Ames Hilton Garden Inn as our alternative because food there was provided by Ken Dunn, who caters our meetings in Molecular Biology. We met in the Hilton Garden Inn a few times at the end of 2010.

In January 2011, we solicited member's opinions on the location. Opinions were decidedly mixed:

no preference: 2 votes

Continue in Molecular Biology only: 8 votes

Continue in Hilton Garden Inn only: 10 votes

Mix of meetings using both Mole. Bio. and Garden Inn: 14 votes

Some other place: 5 votes, with 3 places mentioned.

We continued to meet in both locations in 2011. The Steering Committee discussed the choice of location in Jan 2012. Meeting at the Hilton Garden Inn is more expensive and did not seem to increase attendance.

In the year 2009, we had nomination and election of three new members of the Osborn Research Club, and we had total of 42 Life Members, 19 Active Members, and 31 Associate Members as we go into 2010. Despite the fact that everyone had overly full schedules and we had to compete with other university lectures, we had average meeting attendance of 22 members, slightly less than previous years. I sincerely hope that the attendance will be significantly increased in 2010. The number of new members (three) elected in 2010 was slightly lower than in previous years. We need to put more efforts on actively recruiting new members in 2010.

I propose we continue to try in 2010 to follow earlier chairs' suggestions to keep the club strong and vital, continuing its excellent tradition of 90 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.
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 2010 chairperson, Philip Dixon, 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 2010.

Respectfully submitted,

Jim Reecy
Chairperson, 2011