50th anniversary
Chemistry Graduate Program
1960-2010
Celebration & Symposium
June 18, 2010

UNIVERSITY OF CALIFORNIA, RIVERSIDE
The 50th Anniversary Year of the Chemistry Graduate Program (1st Graduate program at UCR!)

1953-1966: Physical Sciences, 2nd floor (Geology)
1966-2005: Pierce Hall
2000-present: Pierce Hall Annex (research labs)
2001-present: Science Laboratories I (teaching)
2005-present: Chemical Sciences
   (renamed in 2008 - was Physical Sciences I)
In The Beginning

- 1948 - Strayer Report: 1500 Students
- 1949 - L&S College Authorized
  - Delay Due to Korean War
- 1954 - College Opened, (February, 1954)
  - 120 students and ~30 faculty
- 1954 - Division of Physical Sciences
  - chemistry, geology, mathematics, physics
  - W. Conway Pierce, Chairman
- 1960 - Graduate Program in Chemistry
- 1961 - Department of Chemistry
  - James N. Pitts, Chairman
Provost Gordon Watkins goes on faculty recruiting trips, gathering young(?) professors from Yale, Princeton, Pomona, Stanford, Colgate, Dartmouth, Amherst, Reed, Columbia, Oxford and other UC campuses.
Division of Physical Sciences “Charter” Faculty ~1954-56
chemistry, geology, math, physics

Jim Pitts
Harry Johnson 1927-2007
Conway Pierce 1895-1974
George Helmkamp

Hart Schmidt
Chemistry Department: Donald T. Sawyer; George K. Helmkamp; James F. Hornig; absent when picture was taken, James N. Pitts; Harry W. Johnson; Hartland H. Schmidt; Thane H. McCulloh, Geology; Frank W. Dickson, Geology; Michael A. Murphy, Geology.
The opulent Chair’s office

W. Conway Pierce, Chairman of the Division of Physical Sciences.
Early Chemistry Faculty

- 1953: W. Conway Pierce (74), George Helmkamp
- 1954: James N. Pitts (Chairman, 1960-63), Harry W. Johnson (07) (Chairman, 1963-66)
- 1955: Hartland Schmidt (Chairman, 1974-78)
- 1956: Donald T. Sawyer (Chairman, 1966-70)
- 1958: John Garst, James Hornig
- 1959: Ron Archer, Manfred Reinecke; 1959
- 1960-1: Ted Kuwana, Roy Fukuto, Sunney Chan
- 1962: M. F. Hawthorne, David Kearns, Jerry Bell
- 1963: Robert C. Neuman, Philip Radlick
- 1964-7 Gus Maki (09), William Orttung, Richard M. Wing, Mort Gibian, Seth Boorstein, Ted McKinney, William Okamura, Michael Rettig
<table>
<thead>
<tr>
<th>PhD Graduate</th>
<th>Faculty Mentor</th>
<th>PhD Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sharp, James</td>
<td>Pitts, James</td>
<td>01/29/1964</td>
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<tr>
<td>Tackett, James</td>
<td>Sawyer, Donald</td>
<td>01/29/1964</td>
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<tr>
<td>Barr, James K.</td>
<td>Sawyer, Donald</td>
<td>06/10/1964</td>
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<td>Clark, Ronald D.</td>
<td>Helmkamp, George</td>
<td>06/10/1964</td>
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<tr>
<td>Davis, Bruce W.</td>
<td>Pierce, W. Conway</td>
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<td>Kula, Richard J.</td>
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<td>Seo, Eddie T.</td>
<td>Sawyer, Donald</td>
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<td>Stephens, Robert D.</td>
<td>Helmkamp, George</td>
<td>01/27/1965</td>
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<td>Castro, George</td>
<td>Hornig, James F.</td>
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<td>Kray, Louis R.</td>
<td>Reinecke, Manfred G.</td>
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<td>Sebastian, John F.</td>
<td>Johnson, Harry W.</td>
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<td>Haynes, Louis V.</td>
<td>Sawyer, Donald</td>
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<td>Kondo, Norman S.</td>
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<td>06/13/1967</td>
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<td>Rosen, William M.</td>
<td>Radlick, Phillip</td>
<td>06/13/1967</td>
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<td>Schultz, Franklin A.</td>
<td>Sawyer, Donald</td>
<td>06/13/1967</td>
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<tr>
<td>Hargrove, Garrard L.</td>
<td>Sawyer, Donald</td>
<td>08/19/1967</td>
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<tr>
<td>Kawaoka, Kenji</td>
<td>Kearns, David</td>
<td>12/16/1967</td>
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<table>
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<th>PhD Graduate</th>
<th>Faculty Mentor</th>
<th>PhD Date</th>
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<tr>
<td>Baum, Edward Joseph</td>
<td>Pitts, James</td>
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<td>Hess, LaVerne Derry</td>
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<td>01/26/1966</td>
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<td>01/26/1966</td>
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<td>Opdycke, Jack D.</td>
<td>Schmidt, Hartland</td>
<td>01/26/1966</td>
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<td>Reintjes, Marten</td>
<td>Hawthorne, M. Fred</td>
<td>01/26/1966</td>
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<td>Borkman, Raymond F.</td>
<td>Kearns, David</td>
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<td>Kuwana, Theodore</td>
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<td>Hawthorne, M. Fred</td>
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<td>Chaiken, Malcolm B.</td>
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<td>12/17/1966</td>
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<table>
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<th>PhD Graduate</th>
<th>Faculty Mentor</th>
<th>PhD Date</th>
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<tr>
<td>Norman Yeong-Jgi</td>
<td>Orttung, William H.</td>
<td>06/1970</td>
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<tr>
<td>Chen*</td>
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* First international Chemistry PhD

‡Thomas Wolfram (Physics) | Calloway, Joseph | 01/1963
Physical Sciences Building: 1954
Physical Sciences Addition: 1957-58
Chemistry Facilities

• 2nd floor, south wing of Geology bldg; 1954-66
  – Plus 2nd floor addition; 1959-66
  – Pierce Hall; 1966-2005

• Early Instruments and support
  – Beckman DU spectrophotometer; battery powered
  – 1 1/2 secretaries for Division of Physical Sciences
  – Frances Lewis; storekeeper, purchasing, soln prep
  – 1 telephone in stockroom (+ 1 in Chair’s office)
  – Modern instruments added via Ag Exp Station support
  – Glassblower hired, 1959; served campus
  – Electronics technician hired, 1960; served campus
Oct. 19, 1954: UCR is officially dedicated, with Governor Goodwin Knight officially handing the campus to the UC Board of Regents and UC President Robert Sproul.
Aug. 1955. The big "C" on Box Springs Mountain is made in with cement and equipment donated by the E.L. Yeager Construction Co. Surveying work is done by students. At 132 feet long, it is the largest concrete block letter on record. That year's freshman class gave it its first golden coat of paint, a tradition followed in later years.
Miss Pat Tighe poses prettily on a sailboat anchored in Paradise Lake, the new fishing and boating recreational area which is less than one mile from the campus. Will it become the new campus hangout?
Physical Sciences: 1956

Webber Hall

Library

Bell Tower (future)

Watkins Hall

Physical Education
Safety Glasses?
Hawthorne Lab fire: 7/1964
Ground breaking for Pierce Hall - 1964
Pierce Hall: 1965
Pierce Hall; near completion; 1966
Joe Behar, Robert C. Neuman student. HR-100 NMR. Pierce Hall. May, 1967
Katherine Tracy

As of July 1, 1970 the College of Letters and Science will no longer exist. In its place, theoretically, at least, will be four smaller colleges organized according to subject matter—the College of Humanities, the College of Physical Sciences, the College of Social Sciences, and the College of General Studies.

The history of this plan is complex and controversial, involving not only the usual bureaucratic labyrinth but also direct clashes between administrators and the faculty and between faculty and faculty.

One source of the idea of multi-colleges for the UC system was former Berkeley Chancellor and UC President Clark Kerr. In a 1967 speech, in fact, Kerr said that “A modern university cannot be small, but it can seem small to its individual participants...” Kerr believed that a multi-college system would provide a more intimate group that could treat each student and faculty member as a unique individual.

Kerr wanted to see multi-colleges established on the UC campuses. He had proposed such a system for Berkeley, but it was never established.

Somewhat ironically, one week after making the previous statement, Kerr was fired by the Board of Regents in the midst of a heated controversy involving Governor Reagan’s cutting the UC budget and Kerr’s freezing admissions until the budget situation could be clarified.

Actually, many of the board members who voted for the ouster had longstanding biases against Kerr, the exact nature of which may never be learned.

Anyway, Chancellor Hinderaker took up the multi-college torch and held it aloft, announcing the idea apparently first formally at a special conference held at UC’s Lake Arrowhead Conference Center in February, 1967.

Judging from comments after the meeting, several of the department heads attending the meeting voiced strong opposition to the plan, apparently much to the surprise of the Chancellor and other top advocates of the plan, including then Letters and Science Dean Carlo Golino and Vice-Chancellor for Academic Affairs Thomas Jenkins.

On Charter Day, in the spring of 1967, Hinderaker’s plan was loudly and somewhat emotionally defeated in meetings of both the College of Letters and Science and later in the day the Academic Senate. The votes were 77-29 and 101-31 respectively.

During the Academic Senate meeting, applause followed several speeches against the plan, leading the Chancellor at one point toward the end of the meeting to comment, “I don’t regard this as anything personal.” After the vote came, a number of faculty members hastily left the meeting smiling, one saying, “We showed him he can’t ram this down our necks without a fight.”

Especially infuriating to some faculty members was the lack of power to do anything about the imposition of the plan by the Administration. One faculty member commented, “This is something they can do Please turn to page 3.

The Highlander

Multi-College Hassle . . .

November 5, 1969

by fiat, and from where I am it looks like that’s just what is happening, all right.”

The wrangle continued, it seemed, for nearly a year from that point. It didn’t die suddenly; it just tapered off because more and more faculty members came around to support it, or at least to tacitly not oppose it. Some had been vociferous opponents in the early stages of debate.

One such faculty member said in March, 1967, “If this thing goes through, I’m leaving UCR. I won’t stay here at all.”

A year later he said, “Now that I finally understand it, I can’t see the harm I originally thought it contained.”

Presently, pre-executive committees—which “formulate proposals for rules and curricula and define general structure”—are working. And at least one committee, the pre-executive committee for the College of Humanities, has produced a program printed on page nine of this issue.

This will hopefully be the first in a series of articles concerned with the changeover at UCR.

A great deal in terms of mechanics still has to be clarified.

One such area is whether there will be a College of General Studies. Several faculty members have raised questions in this area. There is as well the question as to what the college will be if it is indeed created.

Furthermore, a most important question arises in a period of financial crisis in the University: how much is it all going to cost.
From “The Man in the White Suit”, 1951
Organic Chemistry Teaching Lab

Pierce Hall Third Floor Lab - vacated 2003
1977: Professor Wing
Already thinking of extending carborane cages to carbon buckyball cages … and putting objects inside of them…
THF Still Explodes, Blows Windows Out – Pierce 1326

George Helmkamp toasting his explosion, fall 1977
Compressed gas tank meets high field magnet (neither survived)

suspended above floor
1970’s Chemistry graduate students compete in (politically incorrect) Drag Queen contest.
Breathe Easier (>1980)!

Days /Yr above National Standard

Days /Yr of Stage 1 & 2 Alerts

25th Anniversary

ELC arrives

Ozone Trends Summary: Riverside County

South Coast Air Quality Management District
Chemistry Teaching and Research Buildings

Pierce Hall (1966)


Physical Sciences (i.e. Geology) (1954, 1959 addition)


Chemical Sciences (2005)
Science Laboratories I (2003) viewed from Life Science lawn

Geology 1100 used to be here

1st Floor: 5 organic chemistry teaching labs, two conference rooms, stockroom
Science Laboratories - First Floor

Organic Chemistry Teaching Laboratory
2005
Science Laboratories Explosion:

Science Labs organic stockroom.

Suspected AgN₃ formation in Tollen’s reagent waste. “Spontaneous” explosion.
Mass Spectrometry Laboratory

Chemical Sciences
Research Laboratory

Student carrel by window
<table>
<thead>
<tr>
<th>Year</th>
<th># UGrads campus</th>
<th># Grads campus</th>
<th># Chem Grads</th>
<th># Chem Students*</th>
<th># Chem Faculty</th>
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<td>1960</td>
<td>1500</td>
<td>44</td>
<td>17</td>
<td>?</td>
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<tr>
<td>1965</td>
<td>2600</td>
<td>831</td>
<td>68</td>
<td>?</td>
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<td>1970</td>
<td>4400</td>
<td>1289</td>
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<td>1500</td>
<td>18</td>
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<td>1975</td>
<td>3600</td>
<td>1266</td>
<td>39</td>
<td>1600</td>
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<td>1980</td>
<td>3000</td>
<td>1351</td>
<td>49</td>
<td>1700</td>
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<td>1990</td>
<td>7000</td>
<td>1463</td>
<td>65</td>
<td>3400</td>
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<td>7000</td>
<td>1377</td>
<td>55</td>
<td>4600</td>
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<td>2000</td>
<td>11000</td>
<td>1533</td>
<td>69</td>
<td>5200</td>
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<td>2005</td>
<td>16000</td>
<td>2000</td>
<td>106</td>
<td>7000</td>
<td>24</td>
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<td>2010</td>
<td>17500</td>
<td>2500</td>
<td>115</td>
<td>9000</td>
<td>26</td>
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</table>

*sum of enrollment of chem 1 (1W), 1ABC, organic 8/112 ABC, for calendar year.
Distinguished Teaching Awards - Chemistry

George Helmkamp 1973-1974

Steve Angle 1990-1991

Robert Neuman 1997-1998

Michael Marsella 2007-2008

Awarded annually by the Academic Senate, UCR
Faculty Research Lecturer Awardees-Chemistry

Conway Pierce 1959
James Pitts 1966
David Kearns 1975
Donald Sawyer 1979
William Okamura 1990
Charles Wilkins 1994
Dallas Rabenstein 2001
Roger Atkinson 2006
Christopher Reed 2010

Awarded annually by the UCR Academic Senate
Tolman Award Winners, UCR Chemistry Faculty

Conway Pierce  1963
Donald Sawyer  1982
Jim Pitts  1983
Fred Hawthorne*  1986
Charlie Wilkins  1993
Chris Reed  2004

Awarded annually by the Southern California Section of the ACS to recognize outstanding contributions to chemistry.

*UCR 1962-1970, UCLA 1971-
<table>
<thead>
<tr>
<th>Department Chairs - Chemistry</th>
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<tbody>
<tr>
<td>Conway Pierce</td>
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<tr>
<td>Jim Pitts</td>
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<tr>
<td>Harry Johnson</td>
</tr>
<tr>
<td>Don Sawyer</td>
</tr>
<tr>
<td>Bob Neuman</td>
</tr>
<tr>
<td>George Helmkamp</td>
</tr>
<tr>
<td>Hart Schmidt</td>
</tr>
<tr>
<td>Bob Neuman</td>
</tr>
<tr>
<td>Mike Rettig</td>
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</table>
Bryan Kohler 1940 - 1997
Thank you all for helping to celebrate our 50th anniversary!

Next up:
Professor Jodie Holt
Chair, Depart. of Botany & Plant Sciences

“Avatar: Bridging Science and the Public”
END
The following slides were not formally presented. They are available here for future historical reference.

Note the Luncheon Awards Program near the end!

ELC 1/2013
Out of this world research: Interstellar molecules in a bottle

Carbenes in a Bottle. Prof. Guy Bertrand
Description: UCR's first graduating class attends commencement in 1954
Research and Technology Frontiers

• Physical Organic Chemistry; Synthesis & Natural Products; Polymer Chemistry
• Coordination Chemistry; X-ray crystal structures; Boron & Organo-metallic Chemistry
• Molecular Spectroscopy; UV-vis, IR, NMR, ESR, Raman
• Instrumental Analysis; Cyclic Voltammetry, Mass Spectrometry, GC, GC-MS, HPLC, X-ray fluor, AA & ICP, FIA, Digital Electronics, FT-data processing via digital computers
• Protein Chemistry & Molecular Biology
Varian A-60 NMR; Bob Neuman; 1967
Some Distinguished Students

• Undergraduates
  – Albert Page, 1956; UCR (soils)
  – Bruce Rickborn, 1956; UCSB
  – L. Donald Shields, 1959; Pres. Cal State Fullerton & SMU
  – Leonard Interrante, 1960; UCB, GE, RPI (Chair)
  – Richard Kula, 1960; NSF Fellowship, U of Wisc
  – Dino Tinti, 1962; UC Davis
  – Guenter Ahlers, 1962; UCB Physics (National Academy)
  – Howard Needles, 1963; UCD
  – Clifford Woolfok, 1963; UCI Biochem
  – Richard McCreery, 1970; Ohio State (Dow prof; Chair)

• Graduates
  – Richard Kula, 1964; U of Wisc (Dean Rabenstein’s mentor)
  – Frank Schultz, 1967; U of Indiana/Purdue (Chair)
  – William Fenical, 1968; Scripps Inst Ocean, UCSD
Scot’s Week Host: Professor Scott Scott

GW SCOTT’S WEEK EVENT

FREE!
ALL THE BEER
YOU CAN DRINK
... Just evaluate
(in 2 minutes)

\[ r = 3.29 \text{ m}, \theta = 34^\circ, \phi = 109.5^\circ \]

\[ \psi_{nm}(r, \theta) = \frac{(2\pi)^{3/2} \Gamma(n + 1/2) r^{n+1/2} \sin \theta}{\Gamma(n + 3/2) \sin(n + 1/2) \pi} e^{-r^2/2} \]

\[ L_n(x, y, z) = \frac{(\partial)^n}{(\partial x)^n}(x^n e^{-x}) \]

\[ P_{nm}(\phi) = (1 - z^2)^{n/2} \frac{d^n}{d\sin^2 \phi} P_n(\cos \phi) \]

..Beyond the B.S. ‘77
Professor George Helmkamp defends “Pierce Bombers” Team Title in Scot’s Week tricycle race.

Commons Area
c. early ’70s
Chemical Sciences (previously Physical Sciences 1)

View is toward north. Occupied 2005
<table>
<thead>
<tr>
<th>Research Area</th>
<th>1970</th>
<th>2009</th>
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<tbody>
<tr>
<td>Analytical</td>
<td>1</td>
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<tr>
<td>Inorganic</td>
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<tr>
<td>Environmental</td>
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<td>Materials</td>
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<tr>
<td>Computational</td>
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*18 faculty in 1970, 26 faculty in 2009
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<tr>
<th>Year</th>
<th>Name</th>
<th>Title</th>
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<tr>
<td>2010</td>
<td>Christopher Reed</td>
<td>&quot;TBD&quot;</td>
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<tr>
<td>2006</td>
<td>Roger Atkinson</td>
<td>&quot;Exploring Alkane Atmospheric Chemistry&quot;</td>
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<tr>
<td>2001</td>
<td>Dallas L. Rabenstein</td>
<td>&quot;Nuclear Magnetic Resonance Studies of the Chemistry of Biomolecules&quot;</td>
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<td>1994</td>
<td>Charles Wilkins</td>
<td>&quot;New Mass Spectrometry Tools for Biochemical and Polymer Analysis&quot;</td>
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<td>1990</td>
<td>William H. Okamura</td>
<td>&quot;Vitamin D and Vitamin A -- On the Architecture of Natural and Unnatural Products&quot;</td>
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<td>1979</td>
<td>Donald T. Sawyer</td>
<td>&quot;Trace Metals, Air and Life&quot;</td>
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<tr>
<td>1975</td>
<td>David R. Kearns</td>
<td>&quot;NMR--The New Rosetta Stone&quot;</td>
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<td>1966</td>
<td>James N. Pitts, Jr.</td>
<td>&quot;Basic Research and Undergraduate Education: Conflicting or Complementary&quot;</td>
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<tr>
<td>1959</td>
<td>W. Conway Pierce</td>
<td>&quot;Absorption at Solid Surfaces&quot;</td>
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</table>
Chemistry Department Distinguished Professors

Guy Bertrand
David Bocian
Robert Haddon (joint appointment Engineering)
Francois Mathey
Dallas Rabenstein
Chris Reed
Francisco Zaera (pending)

University of California Presidential Chair

Michael Pirrung
Administrative Service by Chemistry Faculty

Executive Vice Chancellor: Everly Fleischer
Dallas Rabenstei

College Dean: Don Sawyer, Physical Sciences
Dallas Rabenstei, CNAS
Steve Angle, Natural and Agricultural Sciences

Associate Dean: George Helmkamp, Physical Sciences
(College) Charlie Wilkins, Physical Sciences

Associate Dean, Student Affairs: Gary Scott
(College)

Graduate Dean: Harry Johnson
Dallas Rabenstei
UCR campus: 1965
Webber Hall; 8-63
50th anniversary
Chemistry Symposium
June 18, 2010
Lunch Awards Program

UNIVERSITY OF CALIFORNIA, RIVERSIDE
Student Awards

- Karin-Moore-Gandolfo Scholarship
- Kuwana & Sawyer Undergraduate Award
- ACS Award in Analytical Chemistry
- ACS Award in Inorganic Chemistry
- Donald T. Sawyer Graduate Award in Analytical Chemistry
Department of Chemistry 2010
Outstanding Teaching Assistants

- David Medina (Jingsong Zhang)
- Miaomiao Luo (Ludwig Bartles)
- Kayla Kaiser (Cindy Larive)
- Aaron Moehlig (Tom Morton)
Golden Anniversary Graduates

2009 – 2010 Ph.D. Degrees
- Tangyuan Cao (Morton) posthumous
- Lingling Chen (Mueller)
- John Michael Kaiser (Mueller)
- Jinfeng Lai (Mueller)
- Stacie Eldridge (Larive)
- Aiko Matsunaga (Ziemann)
- Glenn Kuchenbeiser (Bertrand)
- Amy Avelar (Reed)
- Tony Ly (Julian)
- Ye Tian (Mueller)

Ph.D. degrees expected by Fall 2010
- Mark Hamza (Rabenstein)
- Theresa Massoud (Pirrung)
- Kevin Weber (Zhang)
- Yong Jiang (Wang)
- Hongxia Wang (Wang)

2009 – 2010 Thesis M.S. Degree
- Olivia Alley (Mueller)
Faculty Awards and Recognition

- *June 2010* Michael Pirrung, Editor-in-Chief of the *Journal of Combinatorial Chemistry*
- *June 2010* Guy Bertrand, Senior Editor of *Chemical Reviews*
- *February 2010* Yadong Yin was selected to receive a 3M Nontenured Faculty Award
- *December 2009* Yadong Yin was awarded an NSF CAREER award
- *December 2009* Eric Chronister was elected a AAAS Fellow
- *September 2009* Chia-en Chang was awarded the 2010 HP Outstanding Junior Faculty award from the ACS Division of Computers in Chemistry
- *July 2009* Francisco Zaera was selected as an inaugural ACS Fellow
- *May 2009* Yadong Yin was named a 2009 Cottrell Scholar
- *May 2009* Tom Morton received the 2009 Chancellor’s Award for Faculty Excellence in Undergraduate Research
- *May 2009* Chris Reed was selected as the 58th annual Faculty Research Lecturer
- *February 2009* Dallas Rabenstein was appointed Executive Vice Chancellor and Provost of UCR
Recognition of Former UCR Faculty

- Werner Kuhr
- Mark Midland
- Robert Neuman
- Mike Rettig
- Don Sawyer
- Hart Schmidt
- Dick Wing
Science Laboratories I Building

Geology 1100 used to be here

First Floor: 5 organic chemistry teaching labs, two conference rooms, stockroom

Upper two floors are Dept. of Environmental Sciences research laboratories
Preparations for Pierce Hall. Physical Sciences: 1964
Bryan E. Kohler (1940-1997)