UCR Chemistry Program

1953-1970
1953-1966; 2nd floor, Geology Building
1966-2005; Pierce Hall

Presented by Professor Donald Sawyer at the 50th Anniversary Symposium of the Graduate Program, December 2005
In The Beginning

• Strayer Report, 1948; 1500 Students
• L&S College Authorized, 1949
  – Delay Due to Korean War
• College Opened, February, 1954
  – 120 students and about 30 faculty
• Division of Physical Sciences
  – chemistry, geology, mathematics, physics
  – W. Conway Pierce, Chairman
Chemistry Faculty

• W. Conway Pierce, George Helmkamp; 1953
• James N. Pitts (Chairman, 1960-63), Harry W. Johnson (Chairman, 1963-66); 1954
• Hartland Schmidt; 1955
• Donald T. Sawyer (Chairman, 1966-70); 1956
• John Garst, James Hornig; 1958
• Ron Archer, Manfred Reinecke; 1959
• Ted Kuwana, Roy Fukuto, Sunney Chan; 1960-1
• M. F. Hawthorne, David Kearns, Jerry Bell; 1962
• Robert C. Neuman, Philip Radlick; 1963
• Gus Maki, William Orttung, Richard M. Wing, Mort Gibian, Seth Boorstein, Ted McKinney, William Okamura, Michael Rettig; 1964-7
• Walter Deal, Paul Ellgen, L. Robin Martin, James Sudmeier; 1968-9
Physical Sciences Building; 1954
Chemistry Facilities

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

• 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
  – Modern instruments added via Ag Exp Station support until 1966 occupancy of Pierce Hall
  – Glassblower hired, 1959; served campus
  – Electronics technician hired, 1960; served campus
  – Research Corp; NSF; AEC; Air Force; PRF
Undergraduates; 2nd floor, Physical Sciences addition
Hawthorne Lab fire; 1964?
Pierce Hall; 1966
Pierce Hall; near completion; 1966
Joe Behar/Robert C. Neuman student; HR-100 NMR, Pierce; May, 1967
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
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
Research Lab, Physical Sciences Addition; 1960s
Preparations for Pierce Hall; Physical Sciences; 1964
Pierce Hall; 1965
Pierce Hall; May, 1967
Pierce Hall; ca 1968
W. Conway Pierce; 1954
Varian A-60 NMR; Bob Neuman; 1967
Michael Rettig; 1967?
Webber Hall; 8-63