

WILLIAM FENICAL

Distinguished Professor of Marine Chemical Biology
and Pharmaceutical Sciences
Scripps Institution of Oceanography
Skaggs School of Pharmacy and Pharmaceutical Science
Moores Comprehensive Cancer Center
University of California, San Diego

PERSONAL: Born: Chicago, Illinois, 24 June 1941

EDUCATION: B.S., 1963, Biochemistry, California State Polytechnic Univ.
Special emphasis on molecular biochemistry.

M.S., 1965, Organic Chemistry, San Jose State Univ.
Special emphasis on synthesis of nitrogen heterocycles.
Thesis: "Evidence for the Tautomerism of 1-Methyl-2-Pyrryl-2'-yl-Pyrroline"

Ph.D., 1968, Organic Chemistry, Univ. of California, Riverside,
Special emphasis on synthetic and structural organic chemistry.
Dissertation: "Electrocyclic Reactions of Polycyclic
Polyolefins" American Cancer Society

Postdoctoral Fellowship, 1968-69,
Bio-organic Chemistry, Univ. of California, Riverside

Emphasis on the photooxygenation of olefins and
the mechanism of singlet oxygen reactivity;
under the direction of Professor David R.
Kearns

PROFESSIONAL EXPERIENCE: Teaching Assistant, San Jose State University, 1964-65
Teaching Assistant, University of California, Riverside, 1965-68
Research Scientist, Shell Development Co., Emeryville, CA, 1969-70
Instructor, San Bernardino Valley College, San Bernardino, CA, 1970-72
Post Graduate Research Chemist, University of California, Riverside, 1970-72
Assistant Research Marine Chemist, Scripps Institution of Oceanography
(SIO), Institute of Marine Resources (IMR), University of California, (UCSD),
1973-79
Lecturer, Scripps Institution of Oceanography, UCSD, 1974-1981
Associate Research Chemist, SIO, IMR, UCSD, 1979-1981
Associate Professor of Oceanography, SIO, UCSD, 1982-1983
Professor of Oceanography, SIO, UCSD, 1983-99.
Associate Director, Institute of Marine Resources, SIO, UCSD, 1987-1988
Acting Director, Institute of Marine Resources, SIO, UCSD, 1988-1993
Director, Marine Research Division, Scripps Institution of Oceanography,
1989-1996.
Coordinator, University of California Sea Grant College Program 1993-1996.

Director, Center for Marine Biotechnology and Biomedicine, 1996-2018
Distinguished Professor of Marine Chemical Biology, SIO-UCSD 2005-
Distinguished Professor of Pharmaceutical Sciences, UCSD 2006-current

**AWARDS &
HONORS:**

Senior Queen's Fellowship, in Marine Science, Australian Commonwealth Government, 1984
Chairman (elected), 1986 Gordon Research Conference on Marine Natural Products Chemistry
University Lecturer - University of Naples, School of Pharmacy, a series of 3 lectures on various aspects of marine natural products chemistry. 1-15 December.
Vice-Chairman (elected), 1992 Gordon Research Conference on Plant-Herbivore Interactions
Member, Bioorganic and Natural Products Study Section, National Institutes of Health, 1987-1991
Editorial Board, Journal of Natural Products, 1989-2020
Editorial Board, Molecular Marine Biology and Biotechnology, 1990-1995
Editorial Board, Journal of Marine Biotechnology, 1995-current
Editorial Board, Journal of Chemical Ecology, 1998-current
Editorial Board, Phytochemistry, 1999-2016
Editorial Board, Chemistry and Biodiversity, 2003-current
Editorial Board, Journal of Antibiotics, 2003-current
Editorial Board, Journal of Marine Drugs, 2003-current
Editorial Board, Chemistry Letters, Japan - current
Editorial Board, Organic Letters, USA, 2010-2019
Editorial Board, Marine Drugs 2020- current
Distinguished Alumni Award, University of California, Riverside, 1994.
Paul Scheuer Award in Marine Natural Products Chemistry, 1996.
Silver Medal Award in Chemical Ecology, 1997. Awarded by the International Society of Chemical Ecology
Burroughs Wellcome Visiting Professorship in Microbiological Sciences (University of Guam) 2002.
NCI Merit Award from the NIH, National Cancer Institute, 2003
Appointed as "Distinguished Professor", SIO 2005
ACS Ernest Guenther Award in Natural Products Chemistry 2006 (March)
Lifetime Achievement Award from the American Society of Pharmacognosy (July 2006)
Elected Fellow of the American Society of Pharmacognosy (2006) August.
Distinguished Alumnus of the Year, Univ. of California, Riverside. 2006
Honored Alumnus for the College of Science and Mathematics, California State University, San Luis Obispo, CA 2007.
George Buchi Visiting Professorship, MIT, 2007-2008.
Elected as Fellow of the American Association for the Advancement of Science (AAAS) 2008.
Awarded the Inhoffen Medal (Braunschweig, Germany) 2009
Madeleine Joullié Distinguished Lecture, University of Pennsylvania, Oct., 2014
Scientist of the Year, San Diego Regional American Chemical Society (2015)
Richard Olsen Distinguished Lecture, 2021, Utah State University, 27 January.

- PROFESSIONAL ACTIVITIES:**
- Consultant, IMR Advisory Committee to State Water Resources Control Board, 1975-present
 - Organizer, First NATO International Symposium on Marine Natural Products Chemistry, Jersey, U.K., November, 1976
 - Member, COOP Task Force, Marine Technology Society, 1977-81
 - Subject Area Coordinator, New Marine Products Area, California Sea Grant College Program, 1977-present
 - Ad Hoc Grant Referee: National Science Foundation; Sea Grant Program; Research Corporation, National Institutes of Health 1977-present
 - Service to Editorial Boards (as journal referee) of Scholarly Journals or Other Publications, J. Org. Chem; J. Agri. & Food Chem.; Tetrahedron Letters; Accounts of Chemical Res.; Phytochem; Tetrahedron; J. Analytical Biochem.; J. Amer. Chem. Soc.; Science
 - Consultant, Kelco Co. in development of algal products, 1980-83
 - Consultant, Ocean Genetics Co., in the development of marine renewable biological resources, 1981-89
 - Participant, First US-People's Republic of China (PRC) Joint Conference on Marine Phycology. Qingdao, PRC, 20 November - 6 December, 1982
 - Organizer, Eleventh International Seaweed Symposium, Section on Biomedical Uses of Marine Algae, Qingdao, People's Republic of China, 15-20 June, 1983
 - Consultant, Harbor Branch Foundation, Center for Marine Biotechnology on marine biomedicinal development, 1983-84
 - Consultant, BF Goodrich Company on marine biotechnology, 1983-present
 - Vice-Chairman, Gordon Research Conference on Marine Natural Products Chemistry, Santa Barbara, CA, 13-17 February 1984
 - Participant, US-Philippines First Joint Workshop on Marine Phycology, 22 October - 6 November, 1984
 - Chairman, Gordon Research Conference on Marine Natural Products Chemistry, Feb, 1986.
 - Invitee, First US-Japan Workshop on Marine Natural Products Chemistry, Okinawa, June, 1986
 - Consultant, Sterling Winthrop Pharmaceuticals, 1987-94
 - Consultant, Ligand Pharmaceuticals, 1990-1996
 - Co-organizer, Conference on the "Biomedical Importance of Marine Organisms", California Academy of Sciences, May 1987
 - Member, NIH, Bio-Organic and Natural Products Study Section, 1987-91
 - Organizer, Workshop "Biomedical Applications of Marine Microorganisms", Scripps Institution of Oceanography, February, 1988

Chairman, San Diego Bay Cleanup Committee, Regional Water Quality Board, San Diego 1987-89
 Co-organizer, section on secondary metabolites, International Coral Reef Symposium Townsville, 1988
 Co-organizer, NIH Workshop "Bioassays for discovery of antitumor and antiviral agents from natural sources", National Library of Medicine, Bethesda, MD October.
 Vice Chairman, Gordon Research Conference on Plant-Herbivore Interactions, Ventura, CA 1992
 Co-Chairman, Second International Marine Biotechnology Conference, Washington, D.C. October, 1991
 Consultant, Pharmagenesis Inc. 1992-94
 Organizer, American Society of Pharmacognosy Annual Meeting, San Diego, CA Summer 1993.
 Member, Committee of Molecular Marine Biology, Ocean Studies Board, National Research Council, 1992-1994.
 Vice President, International Society of Chemical Ecology, 1992-93.
 President Elect, International Society of Chemical Ecology, 1993-94.
 Coordinator, California Consortium for Marine Biotechnology, 1992-94.
 Vice President and President Elect, American Society of Pharmacognosy 2004-2006.
 Co-organizer, XI International Conference on Marine Natural Products Chemistry, Sorrento, Italy, 4-8 September, 2004
 Co-Founder Nereus Pharmaceuticals. 2001.
 Chair, Advisory Board, International MaNaPro Conference Series (2014 - current)

UNIVERSITY SERVICE: SIO Aquarium Committee, 1976-81
 Scripps Industrial Associates Steering Committee, 1976-81
 Marine Operations Committee, 1977-81
 Lecturer, Department of SIO, 1977-1981
 Marine Chemistry Curricular Group, 1977-2020
Ad Hoc committees for personnel review, 1977-2022
 Doctoral Dissertation Committees (see attached Teaching Activities)
 Marine Life Research Group Advisory Panel, 1983-86
 UCSD Representative to Systemwide Coordinating Committee on Graduate Affairs (CCGA), 1985-1987
 Coordinator, Marine Chemistry Curricular group, SIO, 1985-88
 UCSD Graduate Council, 1984-1987
 Committee on Academic Personnel, 1986-1988
 Diving Control Board, 1986-2004.
 UCSD Institutional Biosafety Committee, 1988-94
 SIO, Long Range Planning Committee, 1986-87
 Acting Director, Institute of Marine Resources, 1988-93.
 Director and Associate Director, Marine Research Division, Scripps Institution of Oceanography, 1989-1996.
 Director, Center for Marine Biotechnology and Biomedicine, 1996-2018.
 Member Health and Safety Coordinating Council, UCSD, 1990-94.
 Conflict of Interest Advisory Committee, 1991-97.

Coordinator, University of California Sea Grant College, 1993-1999.
 Member, Analytical Facility Committee 2003-2016.
 Health and Safety Coordinating Committee 2003-2010.

Graduate Students Supervised:

- Bruce M. Howard; 1974-78 (currently Research Chemist McDonald-Douglass Corp.)
- Oliver J. McConnell; 1974-78 (currently Senior Researcher, Bristol-Myers Squibb)
- William Gerwick; 1976-81 (currently Dist. Prof. of Oceanography, SIO, UCSD)
- Maury Bandurraga; 1977-82 (currently research chemist, Procter & Gamble Co., Cincinnati, OH)
- Sally A. Look; 1977-83 (currently research chemist, Food and Drug Administration, Wash, DC)
- Valerie J. Paul; 1980-1985 (currently Director, Smithsonian Marine Lab, Ft. Pierce, FL)
- Mark T. Burch; 1982-1985
- Sofia Gil-Turnes; 1982-1988
- Niels Lindquist; 1983-89 (currently professor, Univ. of No. Carolina at Chapel Hill Marine Lab)
- Jongheon Shin; 1983-89 (currently Professor, Department of Pharmacy, Seoul National Univ.)
- Louis Bookbinder; 1984-1986
- Russell Quinney; 1985-1986
- Adam Sachs; 1986-1987
- Thomas Ames; 1985-1986
- Mingku Park; 1987-1990 (Currently research chemist, Salk Research Institute La Jolla, CA.)
- Jackie Porta Trischman 1988-93 (currently Professor, Dept. of Chemistry, Cal State San Marcos)
- Sarah Richards-Gross 1989-93
- Heonjoong Kang 1989-94 (currently Professor, Dept of Ocean Sciences, Seoul National Univ.)
- Kevin Harrison 1989-1990
- Annette Laursen 1989-1990
- Kelly Jenkins 1993-1998 (currently research scientist Dupont Pharmaceuticals)
- Helene Vervoort 1993-1999 (currently high school faculty, San Jose, CA)
- Tegan Eve 1994-2001 (currently instructor, University of Miami, Dept. of Chemistry)
- Monica Puyana 1995-2001 (Research Associate University of Bogota)
- Akkharawit Kanjana-Opas 1995-2001 (Associate Professor Prince of Songkla Univ.)
- David Rowley 1995-2001 (currently Professor, University of Rhode Island)
- Anna Michel 1998-1999
- Tracy Mincer 1998-2004 (Professor Florida Atlantic Univ)
- Allan Spyere 1998-2004
- Christian Ridley 2002-05 (currently professional researcher)
- Irma Soria 2001-2004. currently Professora, Universidad de Baja Calif. Ensenada, MX
- Dong Chan Oh 2001-2006, currently full Professor Seoul National University.
- Eric Miller 2001-2007 Currently research chemist GNF.(Novartis)
- Sebastian Engel 2001-2007
- Nicole Turkson 2001-2007 (Physician, City of Hope Medical Center, Los Angeles)
- Erin Gontang 2002-2008 (scientific editor, London, England)
- Alejandra Prieto-Davo 2002-2007 (Professor of Marine Science, UNAM, Yacatan, Mexico)
- Ana Paula Espindola 2002-2007 (NMR Spectroscopist, Bruker Instruments, Brazil)

- Wendy Strangman 2002-2007 (Associate Professor, UNC-Wilmington)
- Joel Sandler 2002-2005 (Researcher, PharmaMar, US)
- Choll Boonlaparadab 2002-2007 (Research Chemist in Bangkok, Thailand)
- Sandy Myskowski 2004-2005 (Research Associate UC-San Diego)
- Lauge Farnaes 2006-2010 (MD-PhD at UCSD) currently physician at UCSD hospital
- Ignacio Sottorff 2012-2014 (Research Associate, Univ. de Concepcion, Chile)
- Zhifei Li 2020-2021 (teaching in China)

Postdoctoral Scholars Supervised:

Frank J. McEnroe	1975-77	Xinajian Lin	1997-98
Martha O. Stallard	1975-77	Mercedes Cueto	1998-01
Howard Sleeper	1975-79	Anja Eckdahl	1997-98
William M. Rosen	1976-77	Kurt Schellhaas	1998-99
David N. Young	1976-77	Hyuncheol Oh	1998-00
Hao H. Sun	1977-79	Solange Sakata	1998-00
Nancy Withers	1978-79	Hee Jae Shin	1999-00
Phillipe Schneider	1979-80	Julia Kubanek	1998-00
Richard Izac	1979-81	Felix Flachsmann	1998-00
Patrizia Ciminiello	1985-86	Raphael Kiebooms	2000-01
Bruce Bowden	1980-81	Robert Feling	2000-02
Bernard Banaigs	1981-82	Eliane Garo	2000-03
Christian Francisco	1982-83	Greg Buchanan	2000-03
Vasillios Roussis	1987-89	Lik Tan	2001-03
Amiram Groweiss	1983-85	David Mustra	2001-02
Kirk Gustafson	1984-87	Chundakkadu Krishna	2001-02
Wilhelmus Kokke	1976-80	Melany Puglisi	2001-02
Zhongde Wu	1986-87	Hak Cheol Kwon	2002-06
Dianne Tapiolas	1987-89	Timothy Bugni	2003-04
Martin Risk	1987-88	Philip Williams	2003-06
Leonard Hagmann	1988-89	Ratnakar Asolkar	2003-08
Susan Pochapsky	1988-89	Glenroy Martin	2003-05
Antonio Montanari	1989-91	Ji Young Cho	2003-05
Charles Pathirana	1989-91	John Macmillan	2004-06
Michele D'Ambrosio	1989-90	Michael Kemmler	2004-05
Mark Boehler	1990-92	Chambers Hughes	2005-2011
Aiya Sato	1981-83	Takashi Fukuda	2006-2010
Martin Wahl	1991-93	Susana Gaudencio	2006-2009
Walter Frankmoelle	1991-93	Sandra Loesgen	2007-2009
Ya-Shing Shen	1991-92	Xavier Alvarez	2008-2010
Nam-Kyung Lee	1991-93	Peng Sun	2008-2009
Thomas Lindel	1992-94	Brian Murphy	2007-2010
Young-Kyoon Kim	1992-94	Katherine Maloney	2006-2010
Matthias Koeck	1993-95	Sang Jip Nam	2006-2011
Xing Cheng	1993-98	Vimal Nair	2009-2011
Steve Toske	1993-95	Leila Abrous	2010-2012
Ingo Hardt	1995-97	Lynnie Trzoss	2012-2014
Dean Wilson	1995-97	Kyoung Hwa Jang	2010-2014
Matthew Renner	1996-98	Abdhesh Kumar	2013-2015
Zimin Liu	1996-97	Ella Zafrir Elan	2011-2014
Gil Belofsky	1996-98	Justin Hammons	2014-2017

Byeng Wha Son	1996-97	Lynette Bueno	2014-2016
Peter Lorenz	1997-98	Amjad Hussain	2014-2017
Choong Hwan Lee	1997-98	Min Cheol Kim	2017-current
		Tianyun Jin	2021-current

90 Postdocs Total**EXPEDITIONS**

- 1974 Participant, "Antibiotics from marine organisms in the Gulf of California." R/V ALPHA HELIX, 25 March - 10 April.
- Chief Scientist, "Exploration of the northern Gulf of California." R/V DOLPHIN, 15-30 April.
- 1975 Chief Scientist, "Exploration of the central Gulf of California; The Midriff Island regions." R/V DOLPHIN, 12-28 April.
- Chief Scientist, "Bioactive compounds from marine organisms from the Mediterranean and Black Seas." A multicountry land-based expedition. Spain, France, Italy, Greece, Turkey, 24 May - 22 June.
- 1976 Chief Scientist, "Exploration of the southern Gulf of California." R/V DOLPHIN, 7-22 March.
- Participant, "Shallow water ecosystem project." Carrie Bow Cay, Belize, 1-15 April.
- 1977 Participant, "Marine algal chemistry of the Galapagos Islands." R/V MISTRAL, Santa Cruz Island, Galapagos Islands, 4 June - 1 July.
- Chief Scientist, "Natural products chemistry of marine organisms from Isla Guadalupe, Mexico." R/V E. B. SCRIPPS, Isla Guadalupe, Mexico, 10-15 September.
- 1978 Participant, "Shallow water ecosystem project." Carrie Bow Cay, Belize, British Honduras, 17 April - 1 May.
- Chief Scientist, "Chemical defense strategies in tropical marine organisms." R/V ALPHA HELIX, Pacific Mexico, 19 May - 8 June
- 1979 Chief Scientist, "Chemical studies of tropical marine organisms." R/V ALPHA HELIX, Palau, Western Caroline Islands, 10 September - 10 October.

- 1980 Chief Scientist, "Chemical Defense in Caribbean Gorgonian Corals." R/V CALANUS (Univ. of Miami), Florida Keys, 12-26 June.
- 1981 Chief Scientist, "Chemical investigations of shallow-water tropical marine algae." R/V CALANUS, Bahamas Islands, 1-15 September.
- 1982 Chief Scientist, "Chemical investigations of shallow-water tropical marine algae." R/V CALANUS, Bahamas Islands, 5-21 July.
- 1983 Chief Scientist, "Chemical defense in marine organisms." R/V CALANUS, Bahamas Islands, 26 July - 16 August.
- Co-Chief Scientist with C. K. Tseng in a land-based diving expedition, "Exploration of the Chinese Herbal seaweeds of Hainan Island (South China Sea)." People's Republic of China, 5-21 July.
- 1984 Chief Scientist, "Chemical defense in marine organisms." R/V CALANUS, northern Bahamas Islands, 8-29 August.
- Participant, "Studies of Great Barrier Reef soft-corals." R/V JAMES KIRBY, James Cook University, Townsville, Australia, 23-29 February.
- 1985 Chief Scientist, "Biomedical investigations of deep water plants and animals of Bermuda." R/V SEAHAWK, Bermuda, 8-22 May.
- Chief Scientist, "Chemical defense in marine organisms." R/V CAPE FLORIDA, Lesser Antilles, Caribbean Sea, 17 August - 4 September.
- 1986 Co-Chief Scientist with C. K. Tseng in a land-based diving expedition, "Exploration of the Chinese herbal seaweeds of Hainan Island (South China Sea)." People's Republic of China, 15 April - 8 May.
- Chief Scientist, "Chemical defense in marine organisms." R/V COLUMBUS ISELIN, Lesser Antilles, Caribbean Sea, 14 July - 2 August.
- 1987 Chief Scientist, "Chemical defense in marine organisms." R/V COLUMBUS ISELIN, Bahamas Islands, 23 June - 14 July.

- 1988 Chief Scientist, "Chemical defense in marine organisms." R/V COLUMBUS ISELIN, Bahamas Islands, 17 June - 7 July.
- Organizer, Studies of chemical defense among marine invertebrates of Ningaloo Reef, Northwestern Australia, 25 November - 20 December.
- 1989 Participant, NOAA Aquarius Mission, Chemical defense in marine octocorals St. Croix, USVI, surfact support scientist.
- 1990 Chief Scientist, "Chemical defense in marine organisms." R/V COLUMBUS ISELIN, Bahamas Islands, 6-27 June.
- 1991 Chief Scientist, "Chemical defense in marine organisms." R/V COLUMBUS ISELIN, Bahamas, 11-31 July.
- 1992 Chief Scientist, "Chemical defense in marine organisms." R/V COLUMBUS ISELIN, Belize, 9-30 July.
- 1993 Chief Scientist, "Chemical defense in marine organisms." R/V COLUMBUS ISELIN, Bahamas, 17 August - 6 September.
- 1994 Chief Scientist, "Chemical defense in marine organisms." R/V SEWARD JOHNSON, Bahamas, 21 September - 13 October.
- 1995 Chief Scientist, "Chemical defense in marine organisms." R/V SEWARD JOHNSON, Bahamas, 8-30 August.
- 1996 Chief Scientist, "Chemical defense in marine organisms." R/V SEWARD JOHNSON, Bahamas, 15 June - 7 July.
- 1998 Participant, "Chemical defense in marine organisms." R/V SEWARD JOHNSON, Bahamas, April 24 - May 15.
2001. Chief Scientist "Novel Actinomycetes from marine sediments" R/V Golden Shadow, Pacific Mexico, 6-28 February.
2001. Chief Scientist "Novel Actinomycetes from marine sediments" R/V Golden Shadow, US Virgin Islands, 12-24 April.
2002. Chief Scientist, Land-based diving expedition to Guam, Saipan and Tinian Islands. Hosted by the University of Guam Marine Laboratory.
2003. Participant, Research Expedition aboard R/V Seward Johnson, Bahamas, July

Overview of Expeditions

From 1974 to 2003, I was the organizer and "Chief Scientist" on a series of land-based and ship-board expeditions designed to open a completely new area of science, "marine chemical ecology". These expeditions were aboard numerous research vessels including the *R/V Calanus*, *R/V Dolphin*, *R/V Alpha Helix*, *R/V Columbus Iselin*, *R/V Seward Johnson*, *R/V Cape Florida*, *R/V Seahawk*, *R/V James Kirby*, *R/V Mistral*, *R/V Ellen B. Scripps* and the *R/V Golden Shadow*. The objective of these expeditions was to bring together a diversity of chemists, ecologists and pharmacologists to initiate studies of the important, but poorly known, impact that chemical signals were having in controlling marine ecosystem interactions.

These expeditions were to the tropical Pacific Ocean (Palau, Guam, Saipan), Pacific Mexico (Baja California, Guadalupe Island and the Sea of Cortez), equatorial Western Atlantic (Galapagos) and the tropical Atlantic Ocean (Eastern Caribbean, Puerto Rico, Virgin Islands, Western Caribbean (Belize), Bahamas Islands and Bermuda).

These expeditions were largely supported by the National Science Foundation under the UNOLS (University Ocean Going Laboratory System), and involved a diversity of underwater explorations yet to be duplicated. Diving activities were in both shallow waters (to -40 m) and in deeper diving conditions (Heliox deep saturation diving to -450 m). As this program grew, yearly expeditions began to involve American as well as an international group of South American, Asian and European researchers.

Looking back to these important expeditions, it is clear that the field of marine chemical ecology had its origins in the interactions of such a scientifically diverse group of scientists. Chemists learned ecology and pharmacology, while ecologists learned the fundamentals of chemistry. Pharmacologists, who had never been exposed to field work, were involved in diving and implementing the tools of science in all of these disciplines.

PUBLICATIONS:

WILLIAM FENICAL

(Publications as of January 2022)

1. **1967** Thermal rearrangements of *cis*-bicyclo[6.2.0]deca-9-enes and a new cope rearrangement. Tetrahedron Lett. No. 48, 4901-4904. [P. Radlick and W. Fenical]
2. **1969** The thermal rearrangement of *anti*-9-methyl-*cis*-bicyclo[6.1.0]nonatriene and *syn*-9-methyl-*cis*-bicyclo[6.1.0]nonatriene. J. Am. Chem. Soc. 91(6), 1560-1562. [P. Radlick and W. Fenical]
3. The mechanism of the addition of singlet excited oxygen to olefins - evidence for a 1,2-dioxetane intermediate. J. Am. Chem. Soc. 91(12), 3396-3398. [W. Fenical, D. R. Kearns, and P. Radlick]
4. Mechanism of the reaction of singlet excited oxygen with olefins. II. Elimination of the concerted "ene" mechanism as the route to allylic hydroperoxides. J. Am. Chem. Soc. 91, 7771-7772. [W. Fenical, D. R. Kearns, and P. Radlick]

5. **1970** Experimental and quantum chemical investigation of singlet oxygen reactions. *Ann. N.Y. Acad. Sci.* 171(1), 34-49. [D. R. Kearns, W. Fenical, and P. Radlick]
6. The synthesis and thermal rearrangement of *cis*-9—methylenebicyclo[6.1.0]nonene derivatives. *Tetrahedron Lett.* No. 31, 2707-2710. [P. Radlick, W. Fenical, and G. Alford]
7. **1971** Pacifenol, a rare sesquiterpene containing bromine and chlorine from the red alga, *Laurencia pacifica* - Marine Natural Products I. *J. Amer. Chem. Soc.* 93(15), 3774-3775. [J. J. Sims*, W. Fenical, R. M. Wing, and P. Radlick]
8. **1972** Zonarene, a sesquiterpene from the brown seaweed *Dictyopteris zonarioides* - Marine Natural Products II. *Phytochemistry* 11, 1161-1163. [W. Fenical, J. J. Sims, R. M. Wing, and P. C. Radlick]
9. Johnstonol, an unusual halogenated epoxide from the red alga *Laurencia johnstonii* - Marine Natural Products III. *Tetrahedron Lett.* No. 3, 195-198. [J. J. Sims*, W. Fenical, R. M. Wing, and P. Radlick]
10. **1973** Prepacifenol, a halogenated epoxy sesquiterpene and precursor to pacifenol from the red alga, *Laurencia filiformis* - Marine Natural Products IV. *Tetrahedron Lett.* No. 3, 195-198. [J. J. Sims*, W. Fenical, R. M. Wing, and P. Radlick]
11. Zonarol and isozonarol, fungitoxic hydroquinones from the brown seaweed *Dictyopteris zonarioides* (Marine Natural Products V). *Proc. 3rd Int. Conf. on Food-Drugs from the Sea*, Kingston, R.I., August 1972, pp. 199-202. [W. Fenical*, J. J. Sims, P. Radlick, and R. M. Wing]
12. Chondriol, a novel acetylenic metabolite from the red alga *Chondria oppositoclada* [- Marine Natural Products VI]. *Tetrahedron Lett.* No. 4, 313-316. [W. Fenical*, J. J. Sims, and P. Radlick]
13. Zonarol and isozonarol, fungitoxic hydroquinones from the brown seaweed *Dictyopteris zonarioides* [- Marine Natural Products VII]. *J. Org. Chem.* 38(13), 2383-2386. [W. Fenical*, J. J. Sims, D. Squatrito, R. M. Wing, and P. Radlick]
14. Pachydictyol A, an exceptional diterpene alcohol from the brown alga *Pachydictyon coriaceum* - Marine Natural Products VIII. *J. Amer. Chem. Soc.* 95, 4049-4050. [D. R. Hirschfeld, W. Fenical, G. H. Y. Lin, R. M. Wing, P. Radlick, and J. J. Sims*]
15. Concinndiol, a bromo-diterpene alcohol from the red alga, *Laurencia concinna* - Marine Natural Products [IX]. *J. Chem. Soc., Chem. Comm.*, pp. 470-471. [J. J. Sims*, G. H. Y. Lin, R. M. Wing, and W. Fenical]
16. **1974** Cycloeudesmol, an antibiotic cyclopropane containing sesquiterpene from the marine alga, *Chondria oppositoclada* Dawson. *Tetrahedron Lett.* No. 13, 1137-1140. [W. Fenical* and J. J. Sims]
17. X-ray determination of chondriol; a re-assignment of structure. *Tetrahedron Lett.* No. 16, 1507-1510. [W. Fenical*, K. B. Gifkins, and J. Clardy*]
18. Rhodophytin, a halogenated vinyl peroxide of marine origin. *J. Amer. Chem. Soc.* 96, 5580-5581. [W. Fenical]
19. Polyhaloketones from the red seaweed *Asparagopsis taxiformis*. *Tetrahedron Lett.* No. 51/52, 4463-4466. [W. Fenical]

20. **1975** Chemotaxonomy in marine algae: chemical separation of some *Laurencia species* (Rhodophyta) from the Gulf of California. *J. Phycol.* 11(1), 104-108. [W. Fenical and J. N. Norris]
21. Halogenation in the Rhodophyta, a review. *J. Phycol.* 11(3), 245-259. [W. Fenical]
22. Irieol A and iriediol, dibromoditerpenes of a new skeletal class from *Laurencia*. *Tetrahedron Lett.* No. 46, 3983-3986. [W. Fenical*, B. Howard, K. B. Gifkins, and J. Clardy*]
23. Structures and chemistry of two new halogen-containing chamigrene derivatives from *Laurencia*. *Tetrahedron Lett.* No. 21, 1687-1690. [B. M. Howard and W. Fenical*]
24. Chromazonarol and isochromazonarol, new chromanols from the brown seaweed *Dictyopteris undulata* (zonarioides). *Experientia* 31, 1004-1005. [W. Fenical and O. McConnell]
25. Zonaric acid from the brown seaweed *Dictyopteris undulata*. *Experientia* 31, 1250-1251. [G. Cimino, S. de Stephano, W. Fenical, L. Minale, and J. J. Sims]
26. **1976** α and β -Snyderol; new bromo-monocyclic sesquiterpenes from the seaweed *Laurencia*. *Tetrahedron Lett.* No. 1, 41-44. [B. M. Howard and W. Fenical*]
27. Simple antibiotics from the red seaweed *Dasya pedicellata* var. *Stanfordiana*. *Phytochemistry* 15, 435-436. [W. Fenical and O. McConnell]
28. Chemical variation in a new bromochamigrene derivative from the red seaweed *Laurencia pacifica*. *Phytochemistry* 15, 511-512. [W. Fenical]
29. Sphaerococcenol A; a new rearranged bromo-diterpene from the red alga *Sphaerococcus coronopifolius*. *Tetrahedron Lett.* No. 10, 731-734. [W. Fenical*, J. Finer, and J. Clardy*]
30. 10-Bromo- α -chamigrene. *Tetrahedron Lett.* No. 29, 2519-2520. [B. M. Howard and W. Fenical*]
31. Mercury in marine algae II. *Proc. 4th International Conference on Food and Drugs from the Sea, Mayaguez, Puerto Rico, November 1974*, 145-151. [M. Sivick, A. Der Marderosian, P. Ullucci, and W. Fenical]
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