

# THE Indicator

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**PROFESSOR NEIL BARTLETT**  
**1983 Nichols Medalist**

1903—Edward B. Voorhees  
1905—Charles L. Parsons  
1906—Marston T. Bogert  
1907—Howard B. Bishop  
1908—William H. Walker  
1909—W.A. Noyes  
    H.C.P. Weber  
1910—L.H. Baekeland  
1911—M.A. Rosanof  
    C.W. Easley  
1912—Charles James  
1914—Moses Gomberg  
1915—Irving Langmuir  
1916—Claude S. Hudson  
1918—Treat B. Johnson  
1920—Irving Langmuir  
1921—Gilbert N. Lewis  
1923—Thomas Midgely, Jr.  
1924—Charles A. Kraus  
1925—E.C. Franklin  
1926—S.C. Lind  
1927—Roger Adams  
1928—Hugh S. Taylor  
1929—William L. Evans  
1930—Samuel E. Sheppard  
1931—John A. Wilson  
1932—James B. Conant  
1934—Henry C. Sherman  
1935—Julius A. Neiuwland  
1936—William M. Clark  
1937—Frank C. Whitmore  
1938—P.A. Levene  
1939—Joel H. Hildebrand  
1940—John M. Nelson  
1941—Linus Pauling  
1942—Duncan A. MacInnes  
1943—Arthur B. Lamb  
1944—Carl S. Marvel

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## March 4th, 1983 Nichols Medal Symposium & Award Dinner

The Nichols' Symposium will be held at 1:00 p.m. on Friday, March 4th, 1983 in conjunction with the 1983 Nichols Award presentation to Professor Bartlett. The Symposium will be held at Marymount College, Spellman Auditorium, Tarrytown, NY. The Symposium will be followed by a Banquet and Presentation of the 1983 Nichols Medal. The Banquet will be preceded by a Cocktail Hour beginning at 6:00 p.m. in the Rita Hall Fireplace Area, Marymount College. The Banquet and Award Presentation will be held in the Rita Hall Dining Room.

### Medalist Neil Bartlett

For his synthesis of the first noble gas compounds and subsequent synthesis of other molecules which have enlarged our view of the chemical universe, Professor Neil Bartlett will receive the 1983 Nichols Medal.

Neil Bartlett synthesized the first compound of Xenon in 1962. His discovery started a world-wide search for other noble gas compounds, and a re-evaluation of the theories of chemical bonding which led to the incorrect prediction that these compounds could not exist. The availability of noble gas compounds has led to an entire new chemistry. Bartlett synthesized the first tetravalent compound of nitrogen(V) in 1966, the first gold(V) compound in 1972, the first salts of perfluorobenzene cation, and new salts of graphite and boron nitride. All of these compounds significantly extend the range of what is chemically possible.

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**Nichols Medal Symposium**  
**“CHEMISTRY NEAR THE LIMITS**  
**OF**  
**OXIDATION AND BONDING”**

**1:00 p.m.** — Opening of the Symposium  
Dr. Edward N. Walsh

**1:10 p.m.** — “Twenty Years of Excitement in High-Energy Halogen Oxidizers”  
Dr. Karl O. Christe Rocketdyne,  
A Division of Rockwell International Corporation

**2:00 p.m.** — “Some Exotic Molecules from Non-Metal Fluorine Chemistry”  
Professor Dr. Konrad Seppelt  
FREIE UNIVERSITÄT  
BERLIN

**2:50 p.m.** — Tea and Coffee Break

**3:20 p.m.** — “Xenon Nitrogen Compounds - A Search for New Xenon - Element Bonds”  
Professor Darryl D. DesMarteau  
CLEMSON UNIVERSITY

**4:10 p.m.** — “From The Oxidation of Oxygen to Synthetic Metals — An Oxidative Odyssey”  
Professor Neil Bartlett  
UNIVERSITY OF CALIFORNIA  
BERKELEY

**5:00 p.m.** — Questions & Discussion

**5:45 p.m.** — Close of Symposium

**6:00 p.m.** — Cocktail Hour - Rita Hall Fireplace Area

**7:00 p.m.** — Banquet and Presentation of 1983 Nichols Award to Dr. Neil Bartlett

1945—Vincent du Vigneaud  
1946—Wendel M. Stanley  
1947—George B. Kistiakowski  
1948—Glenn T. Seaborg  
1949—I.M. Kolthoff  
1950—Oscar Wintersteiner  
1951—Henry Eyring  
1952—Frank H. Spedding  
1953—Reynold C. Fuson  
1954—Charles P. Smyth  
1955—Wendell M. Latimer  
1956—Robert B. Woodward  
1957—Louis P. Hammett  
1958—Melvin Calvin  
1959—Herbert C. Brown  
1960—Herman F. Mark  
1961—Peter J.W. Debye  
1962—Paul J. Flory  
1963—Louis F. Fieser  
1964—Arthur C. Cope  
1965—Herbert E. Carter  
1966—Frederick D. Rossini  
1967—Karl Folkers  
1968—William S. Johnson  
1969—Marshall Nirenberg  
1970—Britton Chance  
1971—Henry Taube  
1972—John D. Roberts  
1973—R. Bruce Merrifield  
1974—Harold A. Scheraga  
1975—F. Albert Cotton  
1976—Paul D. Bartlett  
1977—E.J. Corey  
1978—Frank A. Bovey  
1979—Choh Hao Li  
1980—Gilbert Stork  
1981—Roald Hoffmann  
1982—Frank Westheimer