Stanford



James C. Ingle, Jr.

The W. M. Keck Professor of Earth Sciences, Emeritus

Earth & Planetary Sciences

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Earth & Planetary Sciences

ADMINISTRATIVE APPOINTMENTS

- Research Associate, University of Southern California, (1961-1966)
- Visiting Research Scholar, Tohoku University, Japan, (1966-1967)
- Assistant Professor of Geology, Stanford University, (1968-1971)
- Associate Professor of Geology, Stanford University, (1971-1981)
- Professor of Geology, Stanford University, (1981-1993)
- Chairman, Department of Geology, Stanford University, (1982-1986)
- W.M. Keck Professor of Earth Sciences, Stanford University, (1984-2005)
- Professor of Geological & Environmental Sciences, Stanford University, (1993-2005)
- W.M. Keck Professor of Earth Sciences Emeritus, Stanford University, (2005- present)

HONORS AND AWARDS

- Recipient, W. A. Tarr Award, Sigma Gamma Epsilon (1958)
- Nominee, 1962 Newcomb Cleveland Prize,, American Association for the Advancement of Science (1962)
- Fellow, Geological Society of America (1973)
- Fellow, California Academy of Sciences (1975)
- Award for Excellence in Teaching, School of Earth Sciences, Stanford University (1982)
- W. H. Keck Professor of Earth Sciences, Stanford University (1984 – 2005)
- Lewis G. Weeks Lecturer, University of Wisconsin, Madison (1986)
- Distinguished Lecturer, American Association of Petroleum Geologists (1986)
- A.I. Levorsen Award, American Association of Petroleum Geologists (1988)
- Honorary Membership, Society for Sedimentary Geology (SEPM), Pacific Section (1991)
- Distinguished Lecturer, Joint Oceanographic Institutions (1991)
- Honorable Mention (paper presentation), National Meeting, Society for Sedimentary Geology (SEPM), San Diego (1996)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member & Past-Chair, Regional Committee on Pacific Neogene Stratigraphy, International Geological Correlation Project (1976 - 2005)

- Advisor, U.S.-Japan Marine Geology Panel (1993 - 2005)
- Associate Editor (Foreign), Transactions and Proceedings of the Palaeontological Society of Japan (1994 - present)
- Member, School of Earth Sciences Committee on Ocean Margins Initiative & Faculty Search, Stanford University (1995 - 2001)
- Editorial Board Member, Geoscience Journal (Geological Society of Korea) (1997 - present)
- Member, Branner Earth Sciences Library Committee, Stanford University (1997 - 2005)
- Member, Oceans Curricular Development Committee, Earth Systems Program, Stanford University (1999 - 2005)
- Faculty Speaker, Stanford QUEST Program, Stanford University (2000 - 2005)
- Speaker, V Reunion Internacional Geologia de la Peninsula de Baja California, Loreto, Mexico (2000 - 2000)
- Earth Science Council, Stanford University (2001 - 2005)

PROFESSIONAL EDUCATION

- Ph.D., University of Southern California , Geology (1966)
- M.S., University of Southern California , Geology (1962)
- B.S., University of Southern California , Geology (1959)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Current research interests include the Neogene stratigraphy, paleoceanography, and depositional history of marine basins and continental margins of the Pacific Ocean with a focus on the California borderland and Gulf of California. Other interests involve study of marine diatomaceous sediments, the sedimentary record of the oxygen minimum zone, and application of benthic and planktonic foraminifera to questions surrounding the history of the global ocean and climate change.

Publications

PUBLICATIONS

- **Late Quaternary subsidence of Santa Catalina Island, California Continental Borderland, demonstrated by seismic-reflection data and fossil assemblages from submerged marine terraces** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  Castillo, C. M., Klemperer, S. L., Ingle, J. C., Powell, C. L., Legg, M. R., Francis, R. D.
  2019; 131 (1-2): 21–42
- **SHALLOW-WATER BENTHIC FORAMINIFERA OF THE GALAPAGOS ARCHIPELAGO: ECOLOGICALLY SENSITIVE CARBONATE PRODUCERS IN AN ATYPICAL TROPICAL OCEANOGRAPHIC SETTING** *JOURNAL OF FORAMINIFERAL RESEARCH*
  Humphreys, A. F., Halfar, J., Ingle, J. C., Manzello, D., Reymond, C. E., Westphal, H., Riegl, B.
  2019; 49 (1): 48–65
- **Effect of seawater temperature, pH, and nutrients on the distribution and character of low abundance shallow water benthic foraminifera in the Galapagos** *PLOS ONE*
  Humphreys, A. F., Halfar, J., Ingle, J. C., Manzello, D., Reymond, C. E., Westphal, H., Riegl, B.
  2018; 13 (9): e0202746
- **Truncorotalia crassaformis from its type locality: Comparison with Caribbean plankton and Pliocene relatives** *MARINE MICROPALEONTOLOGY*
  Scott, G. H., Ingle, J. C., McCane, B., Powell, C. L., Thunell, R. C.
  2015; 117: 1-12
- **Establishment of the western Pacific warm pool during the Pliocene: Evidence from planktic foraminifera, oxygen isotopes, and Mg/Ca ratios** *PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY*
  Sato, K., Oda, M., Chiyonobu, S., Kimoto, K., Domitsu, H., Ingle, J. C.
  2008; 265 (1-2): 140-147

- **Transtensional fault-termination basins: an important basin type illustrated by the Pliocene San Jose Island basin and related basins in the southern Gulf of California, Mexico** *BASIN RESEARCH*
  Umhoefer, P. J., Schwennicke, T., Del Margo, M. T., Ruiz-Geraldo, G., Ingle, J. C., McIntosh, W.
  2007; 19 (2): 297-322

- **Memorial to Hiroshi Ujiie** *JOURNAL OF FORAMINIFERAL RESEARCH*
  Ingle, J. C., Lipps, J. H.
  2006; 36 (4): 394-395

- **A Permian-Triassic boundary section at Quinn River Crossing, northwestern Nevada, and implications for the cause of the Early Triassic chert gap on the western Pangean margin** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  Sperling, E. A., Ingle, J. C.
  2006; 118 (5-6): 733-746

- **Modern non-tropical mixed carbonate-siliciclastic sediments and environments of the southwestern Gulf of California, Mexico** *SEDIMENTARY GEOLOGY*
  Halfar, J., Ingle, J. C., Godinez-Orta, L.
  2004; 165 (1-2): 93-115

- **Modern warm-temperate and subtropical shallow-water benthic foraminifera of the southern Gulf of California, Mexico** *JOURNAL OF FORAMINIFERAL RESEARCH*
  Halfar, J., Ingle, J. C.
  2003; 33 (4): 309-329

- **Holocene-late Pleistocene non-tropical carbonate sediments and tectonic history of the western rift basin margin of the southern Gulf of California** *Fall Meeting of the American-Geophysical-Union*
  Halfar, J., Godinez-Orta, L., Goodfriend, G. A., Mucciarone, D. A., Ingle, J. C., Holden, P.
  ELSEVIER SCIENCE BV.2001: 149–78

- **Late miocene to pliocene stratigraphic evolution of northeast Carmen island, Gulf of California: implications for oblique-rifting tectonics** *Fall Meeting of the American-Geophysical-Union*
  Dorsey, R. J., Umhoefer, P. J., Ingle, J. C., Mayer, L.
  ELSEVIER SCIENCE BV.2001: 97–123

- **Geologic and paleontologic features of rock samples in the Cooperative Monterey Organic Geochemistry Study, Naples Beach and Lions Head sections, California** *The Monterey Formation—from rocks to molecules*
  Isaacs, C. M., Pollastro, R. M., Barron, J. A., Ingle, Jr., J. C., Bukry, D., Dunbar, R. B., Keller, M. A., Tomson, J. H., Lewan , M. D.
  edited by Isaacs, C. M., Rullkötter, J.
  Columbia University Press.2001: 373–392

- **Microfacies analysis of recent carbonate environments in the Southern Gulf of California, Mexico - A model for warm-temperate to subtropical carbonate formation** *PALAIOS*
  Halfar, J., Godinez-Orta, L., Ingle, J. C.
  2000; 15 (4): 323-342

- **A memorial for William V. Sliter** *JOURNAL OF FORAMINIFERAL RESEARCH*
  Douglas, R. G., Lipps, J. H., Ingle, J. C., Barron, J.
  1999; 29 (4): 313-317

- **Atmosphere-ocean coupling and surface circulation of the ocean** *Earth Systems: Processes and Issues*
  Ingle, Jr., J. C.
  edited by Ernst, W. G.
  Cambridge Univ. Press.1999: 152–169

- **Geology and paleontology of southwestern Isla Tiburon, Sonora, Mexico** *Revista Mexicana de Ciencias Geologicas*
  Gastil, G., Neuhaus, J., Cassidy, M., Smith, J., Ingle, J. C., Krummenacher, D.
  1999; 16: 1-34

- **Deep-sea and global ocean circulation** *Earth Systems: Processes and Issues*
  Ingle, Jr., J. C.

edited by Ernst, W. G.
Cambridge Univ. Press.1999: 169–181

- **Strontium isotope ages of the marine Merced Formation, near San Francisco, California** *QUATERNARY RESEARCH*
  Ingram, B. L., Ingle, J. C.
  1998; 50 (2): 194-199

- **The Sisquoc/Foxen boundary in the Santa Maria Basin, California: sedimentary response to a new tectonic regime** *U. S. Geol. Survey, Bull.*
  Behl, R., Ingle, Jr., J. C.
  1998; 5: 1-16

- **Measurement of tectonic surface uplift rate in a young collisional mountain belt** *NATURE*
  Abbott, L. D., Silver, E. A., Anderson, R. S., Smith, R., Ingle, J. C., KLING, S. A., Haig, D., Small, E., Galewsky, J., Sliter, W.
  1997; 385 (6616): 501-507

- **Stable isotope record of late Holocene salinity and river discharge in San Francisco Bay, California** *EARTH AND PLANETARY SCIENCE LETTERS*
  Ingram, B. L., Ingle, J. C., Conrad, M. E.
  1996; 141 (1-4): 237-247

- **A 2000 yr record of Sacramento San Joaquin river inflow to San Francisco Bay estuary, California** *GEOLOGY*
  Ingram, B. L., Ingle, J. C., Conrad, M. E.
  1996; 24 (4): 331-334

- **Stable isotope and salinity systematics in estuarine waters and carbonates: San Francisco Bay** *GEOCHIMICA ET COSMOCHIMICA ACTA*
  Ingram, B. L., Conrad, M. E., Ingle, J. C.
  1996; 60 (3): 455-467

- **FORAMS '94 - Selected papers from the Fifth International Symposium of Foraminifera, held July 5-9, 1994 at the Clark Kerr Campus of the University of California at Berkeley - Preface** *MARINE MICROPALEONTOLOGY*
  Langer, M. R., Lipps, J. H., Ingle, J. C., Sliter, W. V.
  1995; 26 (1-4): 1-2

- **SUBSIDENCE AND UPLIFT OF THE LATE CRETACEOUS CENOZOIC MARGIN OF CALIFORNIA - NEW EVIDENCE FROM THE GUALALA AND POINT ARENA BASINS** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  LOOMIS, K. B., Ingle, J. C.
  1994; 106 (7): 915-931

- **FORE-ARC RESPONSE TO SUBDUCTION OF THE COCOS RIDGE, PANAMA COSTA-RICA** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  Corrigan, J., Mann, P., Ingle, J. C.
  1990; 102 (5): 628-652

- **MEMORIAL TO ASANO,KIYOSHI** *JOURNAL OF FORAMINIFERAL RESEARCH*
  Ingle, J. C.
  1990; 20 (2): 93-94

- **NEOGENE STRATIGRAPHY, FORAMINIFERA, DIATOMS, AND DEPOSITIONAL HISTORY OF MARIA-MADRE ISLAND, MEXICO - EVIDENCE OF EARLY NEOGENE MARINE CONDITIONS IN THE SOUTHERN GULF OF CALIFORNIA** *MARINE MICROPALEONTOLOGY*
  McCloy, C., Ingle, J. C., Barron, J. A.
  1988; 13 (3): 193-212

- **RIO DELL FORMATION - PLIO-PLEISTOCENE BASIN SLOPE DEPOSIT IN NORTHERN CALIFORNIA** *SEDIMENTOLOGY*
  Piper, D. J., Normark, W. R., Ingle, J. C.
  1976; 23 (3): 309-328

- **ORIGIN OF WEST PHILIPPINE BASIN** *NATURE*
  Karig, D., Ingle, J. C., Bouma, A. H., Ellis, H., Haile, N., Koizumi, I., MACGREGO, I. D., Moore, C., Ujiie, H., Watanabe, T., White, S. M., Yasui, M., Ling, et al
  1973; 246 (5434): 458-461

- **Evidence of glaciation on Mount San Gorgonio, San Bernadino County, California, The Compass of Sigma Gamma Epsilon, v. 35, n. 4, p. 230-237, J.C. Ingle and D.S. Moran** *The Compass*
  ingle, j. c., Moran, D.
  1958; 35 (4): 230-237