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1. EDUCATIONAL HISTORY:

	<u>Major</u>	<u>Minor</u>	<u>Dates</u>	<u>Degree</u>
University of Delaware	Geology	Math	1960-64	B.S. with Hon. & Dist.
Pennsylvania State University	Geology	Botany	1964-68	Ph.D.

Senior Thesis: Palynological Investigation of Post-Glacial Sea Level Changes at
 Canary Creek Salt Marsh, Lewis, Delaware.

Ph.D. Dissertation Subject: The Petrology of Some Peats of S. Florida with Special
 Reference to the Origin of Coal

2. EMPLOYMENT HISTORY:

<u>Dates</u>	<u>Firm/Institution</u>	<u>Rank/Position</u>
1988-Pres	University of South Carolina	Professor of Geological Sc. & Marine Sci.
1982-88	Los Alamos Nat. Lab/U. Cal. Berkeley	Staff Scientist
1982-88	Univ. So. Carolina/Univ. New Mexico	Adjunct Prof. at both institutions
1975-82	University of South Carolina	Prof. & Director, Org. Sed. Res. Ctr.
1974-75	U.S. Geol. Survey, Coal Res. Br.	Professional Geologist
1969-74	Southern Illinois University	Associate Professor
1968-69	University of Georgia	Assistant Professor

3. HONORS AND AWARDS:

2008 Runner-Up: M. J. Mungo Distinguished Prof. of Yr Award - (Competitive award among all depts. at USC)
 Gilbert H. Cady Award, Geol. Soc. Amer. From (Coal Geology Div.) – Int. Award for Coal Research (2005)
 Michael J. Mungo Undergraduate Teaching Award 2003 (USC - University-wide undergrad teaching award)
 Nominated (2004-2008) for M. J. Mungo Graduate Teaching Award (Finals –2007, 2008)
 Geological Soc. America, Distinguished Service Award, Coal Div. - (1996)
 ASTM, Standards Development Award (1996-97)
 USC Award for Excellence in Research (1994-1995)
 Standards Development Award, from American Assoc. for Testing and Materials (1992)
 President, The Society for Organic Petrology (1989-90)
 Outstanding Paper Award, Coal Geol. Div., G.S. Am. (co-authored w/Raymond, Bish) (1987)
 Two papers selected in 1984 for inclusion in book: "Benchmark Papers in Coal Geology."
 (Selected from all published coal-related scientific work in the U.S. for previous 75 years)
 Elected Chairman, ASTM Classification of Peat (1979)
 Elected Chairman, Coal Division, Geol. Soc. America (1976)
 Tidewater Oil Company Award (to outstanding student in Geology) (1963)
 BS with Honors and Distinction, University of Delaware (1964)
 Phi Beta Kappa (1964); Sigma Xi (1964) ; Phi Kappa Phi (1964)

4. RESEARCH SUPERVISION:**A. Ph.D. Dissertations:**

E. Allen (1977) (jointly with Kraft): Univ. of Delaware, "Petrology and Stratigraphy of

- Holocene Coastal Marsh Deposits along the Western Shore of Delaware Bay"
- F. Rich (1979) (jointly with Spackman): Penn. State Univ., "Origin of Tree Isl. Okefenokee Swamp"
- D. Corvinus (1982): University of South Carolina, "Premaceral Composition of Okefenokee and North Carolina peats"
- R. Bodden (1997) Thesis Com. Chair: "Coalbed Methane Production & Desorption..."
- A. Rizzuti (2001): "Removal of Odors & Other Contam. Using Peats"
- A. Breuning (2007): "Paleoecology & Stratig. Relationships of Holocene Peat Containing Deposits of the Whitewater Bay Region of Southern Florida"
- D. Shelley (2007): "Geology, Geomorphology, & Tectonics of the Congaree River Valley, SC"
- P. Marsh (2008.): Tracking Changes In Positions of *J. Roemerianus* Marshes by Use of Palynomorphic Fingerprint
- A. E. Stack (2011): "Properties and Applications of Organic Biodegradable Sorbents(Peat) for Remediation of Hazardous Waste Substances"
- J. Witt (In Prog.): Trace Element Distribution in Peat Deposits of Congaree Nat. Park & SRS"
- S. Chatterjee (In Prog.): A high-resolution study of depositional facies and architecture of Ford Branch outcrop: a middle Pennsylvanian sedimentary sequence near Pikeville, Ky

B. Masters Theses:

- D. Eggert (1974): Southern Illinois University
"Palynology of the Walterboro Formation, Chesterian of S. Ill."
- J. Staub (1977): University of South Carolina
"Snuggedy Swamp of S. Carolina: A Modern Back-Barrier Deposit"
- D. Corvinus (1978): University of South Carolina
"Micropet. Description & Premacerals of Snuggedy Swamp"
- P. Daniel (1980): University of South Carolina
"The Occurrence and Distribution of Elements in a Modern Coal-Forming Environment on the Atlantic Coastal Plain in Dare County, N. Carolina"
- M. Tisdale (1981): University of South Carolina
"Characteristics of South Carolina Peats"
- L. Fearn (1981): University of South Carolina
"Palynology of Okefenokee Swamp Peats"
- M. Holmes (1981): University of South Carolina
"Characteristics of Peats from Savannah R. Wildlife Ref., SC"
- J. Brown (1981): University of South Carolina
"Palynologic and Petrog. Analysis of Bay Head and Marsh Peats at Little Salt Springs Archeological Site 8 So 18"
- M. Andrejko (1983): University of South Carolina
"Environmental and Geochemical Role of Silica in Peat-Producing Sawgrass Communities in the Florida Everglades"
- R. Scherer (1983): University of South Carolina
"Freshwater Diatom Assemblages and Paleoecology of the Okefenokee Swamp-Marsh Complex of Southern Georgia"
- E. Stack (1984): University of South Carolina
"Development and Environmental History of Chesser Prairie in Okefenokee Swamp Based on Pollen Stratigraphy and Peat Petrology"
- T. Page-Fair (1984): University of South Carolina
"Palynological Study of West-Central Okefenokee Swamp Forest"
- C. Bowles (1993): "Paleoecology of Peats from the Santa Fe Swamp of Central Florida"
- D. Hargrove (1994): "Palynological Investig. of Cretaceous-Tertiary Boundary in S.C."
- K. McKay-Brown (1994): "Sulfur and Pyrite in Peat Deposits of Florida Bay and Mangrove Swamps of Florida"
- A. Rizzuti (1995): "Irradiating Peat: What Effect does this have on its Ability to Extract BTEX and Cadmium from Contaminated Water"
- C. Gage (1997): "Correlation of Diatom Assemb.w/ Petrog. & Pollen Anal to Assess Phosp. Pollu. & Drainage Disrupt. in Fl. Everglades"
- C. Bucklin (1997): "Palynology of Snuggedy Swamp, SC"

- J. Thibeau (1999): "Paleoecological Reconstruction of Pigeon Key, Fl. Bay"
 A Travis (2001): "Pollen Fingerprints Using Surficial Samples from Coot Bay Hammock, S. Fl"
 T. Williams (2001): "Trace Element Distribution in an Organic-rich Wetland at Sav. Riv. Site, SC"
 P. Marsh (2006): "Pollen Fingerprinting in Modern Salt Marsh Environments in South Carolina: Search for Analytical Standards"
 S. Adams (In Prog.): "Remediation of Contaminants from Golf Courses Using Floating Peatlands"
 G. Wyche (In Prog.): Sponge Spicules as Paleothermometers in Okefenokee Peats

5. BOOKS AND MONOGRAPHS:

- Spackman, W., Cohen, A. D., Given, P. H., and Casagrande, D. J., 1974, Comparative Study of the Okefenokee Swamp and the Everglades-Mangrove Swamp-Marsh Complex of Southern Florida: Geol. Soc. America Field Trip Guidebk. no. 6, 265 pp.
- Given, P. H. and Cohen, A. D., 1977, eds., Interdisciplinary Studies of Peat and Coal Origins: Geol. Soc. America Microform Publ., 173 pp.
- Spackman, W., Cohen, A. D., Given, P. H., and Casagrande, D. J., 1976, Comparative Study of the Okefenokee Swamp and the Everglades-Mangrove Complex of Southern Florida: Coal Research Section, Penn. State Univ., 403 pp.
- Cohen, A.D. and Spackman, W., 1977, Phytogenic Organic Sediments and Sedimentary Environments in the Everglades-Mangrove Complex, Part II, Origin, Description and Classification of the Peats of Southern Florida, v. 162, part B, 61 pp.
- Cohen, A.D., 1979. Peat Appraisal Report: Dare County Bombing Range, NC: U.S. Army Corps of Engineers Contract #DACA 21-78-C-0104.
- Cohen, A.D., Holmes, M., Andrejko, M.J., Corvinus, D.A., and Tisdale, M., 1981, Peat resource estimation of S. Carolina: (Year 2), S. Carolina Energy Research Institute, Columbia, S.C., 98 pp.
- Cohen, A.D., Casagrande, D. J., Andrejko, M. and Best, R., eds., 1984, The Okefenokee Swamp: Its Natural History, Geology, and Geochemistry: Wetland Surveys, 720 pp.
- Roybal, G., Campbell, E., Beaumont, E., Cohen, A., Kuellmer, F., and Kottowski, F., 1986, Quality assessment of the strippable coals of New Mexico: New Mexico Energy Res. and Dev. Inst., (2-73-4304): 90 pp.
- Trocki, L., Newman, C.K., Gurule, F., Aragon, P.C., Peck, C., Booth, S.R., Burris, A.E., Cohen, A.D., et al., 1988, Un Atlas Energetico de Cinco Paises Centroamericanos, LA-11205-MS, Los Alamos National Laboratory, 126 pp.
- Cohen, A.D., R.C. Borden, E.M. Stack, Liu, J., and J.R. Durig, 1996, Evaluation of Peat-based and Nutrient Media for Remediation of Hydrocarbon Contaminated Groundwater in Permeable Barrier Applications: EPA/600/X-96/001, 53 pp.
- Cohen, A.D., 2005, Peat Deposits of the Okefenokee Swamp: Their Significance in Interpreting the Characteristics of Coal Seams: Wetland Surveys, Columbia, SC, 155 pp.
- Shelley, D. C., Cohen, A., D., and Thom, T. A., 2008, Floodplain Geomorphology and Depositional Environments of Congaree National Park: National Park Service, 53 pp.

6. OTHER PUBLICATIONS: (Abstracts indicated by asterisk)

- *Cohen, A.D. and Spackman, W., 1967, Microscopic studies of southern Florida peats: Geol. Soc. Amer. Spec. Paper 115, p. 37
- *Spackman, W. and Cohen, A.D., 1967, Alteration of plant tissue during peat diagenesis: Gordon Research Conf. on Coal.
- Cohen, A.D., 1968, The Petrology of Some Peats of Southern Florida, with Special Reference to the Origin of Coal: Ph.D. Dissert, Penn State Univ., 352 pp.
- Cohen, A.D. and Guber, A.L., 1968, Production of pollen-sized "microforaminifera" from "normal" foraminifera: Micropaleontology 4(3): 361-362.
- *Cohen, A.D., 1969, Early stages in the "coalification" of plant fragments in southern Florida peats: Geol. Soc. Amer. Absts. with Prog. for 1969, 7:37.
- *Cohen, A.D., 1969, The petrology of some peats of southern Florida (with Special Reference to the Origin of Coal), Ph.D. Thesis: Dissertation Abst., XXX (3).
- Cohen, A. D., 1970, An allochthonous peat deposit from southern Florida: Geol. Soc. Amer. Bull., 81:2477-2482.

- Given, P.H., Spackman, W., Cohen, A.D., Imbalzano, J., Casida, D., and Hiscott, T., 1970, Botanical, chemical, and microbiological studies of peat accumulation processes in the Everglades of Florida: *Internat. Ser. Mono. Earth Sci.*, 32:313-314.
- *Cohen, A.D., Spackman, W., and Dolsen, C.P., 1971, Occurrence and distribution of sulfur in peat-forming environments of southern Florida: *Geol. Soc. Amer. Abst. with Prog. for 1971 Ann. Mtgs.*, 3(7): 528.
- *Cohen, A.D., 1972, Petrology, paleoecology and diagenesis of the peats of the Okefenokee Swamp of Georgia: *Geol. Soc. Amer. Abst. with Prog. for 1972 Ann. Mtgs.*, 4(7): 475.
- Cohen, A.D. and Spackman, W., 1972, Methods in peat petrology and their application to reconstruction of paleoenvironments: *Geol. Soc. Amer. Bull.*, 83:129-142.
- Cohen, A.D., 1973, The petrology of some recent peat sediments from the Okefenokee swamp-marsh complex of southern Georgia: *Geol. Soc. Amer. Bull.*, 84:3867-3878.
- Cohen, A.D., 1973, Possible influences of subpeat topography and sediment type upon the development of the Okefenokee Swamp of Georgia: *Southeastern Geology*, 15(3):141-151.
- Cohen, A.D. and Wiedemann, H.U., 1973, Distribution and depositional history of some pre-lagoonal Holocene sediments from the Ceinaga Grande de Santa Marta, Colombia: *Mitteilungen aus dem Instituto Colombo-Aleman de Invest. Cient.*, Santa Marta, 7:139-154.
- *Eggert, D. and Cohen, A.D., 1973, Petrology of coal balls from the Herrin #6 Coal (Carbondale, Fm.), Williamson Co., IL., *Geol. Soc. Amer. Abst.*, 5(4):312-313.
- *Cohen, A.D. and Ting, F.T.C., 1973, Comparison of a silicified peat from North Dakota and a modern *Taxodium* peat from the Okefenokee Swamp of Georgia: *Geol. Soc. Amer. Abst. with Prog. for 1973 Ann. Mtgs.*, 5(7):579.
- Cohen, A.D., 1974, Petrography and paleoecology of Holocene peats from the Okefenokee swamp-marsh complex of Georgia: *Jour. of Sedimentary Pet.*, 44(3):716-726.
- Cohen, A.D. and Spackman, W., 1974, Petrology of peats from the Everglades and coastal swamps of southern Florida: environments of South Florida, present and past: *Miami Geol. Soc. Memoir*, 2:233-255.
- Cohen, A.D., 1974, Evidence of fires in the ancient Everglades and coastal swamps of southern Florida: environments of South Florida, present and past: *Miami Geol. Soc. Memoir*, 2:213-218.
- Gleason, P.J., Cohen, A.D., Smith, W.G., Brooks, H.K., Stone, P.A., Goodrich, R.L., and Spackman, W., 1974, The environmental significance of Holocene sediments from the Everglades and saline tidal plain: environments of South Florida, present and past: *Miami Geol. Soc. Memoir*, 2:287-341.
- Cohen, A.D., 1975, Peats from the Okefenokee swamp-marsh complex: *Geoscience and Man*, XI:123-131.
- *Rich, F. and Cohen, A.D., 1976, Pollen stratigraphy and peat petrography of a Tree Island in the Okefenokee Swamp: *Geol. Soc. Amer. Abst. with Prog.*, 8(6):1067-1068.
- *Howell, D. and Cohen, A.D., 1976, Petrography and paleoecology of the Cedar Grove Coal from Boone County, W. Virginia: *Geol. Soc. Amer. Abst. with Prog.*, 8(6):930-931.
- Cohen, A. D. and Spackman, W., 1977, Phytogenic organic sediments and sedimentary environments in the Everglades-mangrove complex, Part II, the origin, description and classification of the peats of southern Florida, *Palaeontographic*, 162(B):1-132.
- Gleason, P.J., Hoffstetter, R., Cohen, A.D., and Stone, P.A., 1977, Characteristics and peat stratigraphy of Tree Islands: *Geol. Soc. Amer. Microform Publ.*, 7:93-109.
- Cohen, A.D., 1977, Bibliography of the geology, biology, and history of the Okefenokee swamp and vicinity: *Natl. Wildlife Refuge Leaflet Series*, 11 pp.
- *Allen, A.E. and Cohen, A.D., 1977, Thin section analysis of coastal marsh sediments and its use in paleoenvironmental reconstruction: *SEPM Tech. Prog. for 1977 Ann. Mtg.*
- *Staub, J.R. and Cohen, A.D., 1977(a), A depositional model for the Snuggedy Swamp on the South Carolina coast: *South Carolina Acad. Sci. Proc.* 1977.
- *Staub, J.R. and Cohen, A.D., 1977(b), Formation of a kaolinite-rich "underclay" beneath the peats of the Snuggedy Swamp of South Carolina: *Geol. Soc. Amer. Abst. with Prog.*, 9(2):187.
- *Horne, J.C., Ferm, J.C., Cohen, A.D., Mathew, D., Melton, R.A., Pedlow, G.W. III, Sewell, J.M., Staub, J.R., and Carruccio, F.T., 1977, Depositional models in coal exploration and mine planning: *Abst. Amer. Assoc. Pet. Geol. Ann. Mtg.* 1977.
- *Corvinus, D.A. and Cohen, A.D., 1977, Petrographic analysis of Peat sediments from the Snuggedy Swamp of South Carolina: *S. Car. Acad. Sci. Proc. for 1977.*
- *Cohen, A.D. and Staub, J.R., 1977, Comparison of environments of coal formation in the Okefenokee Swamp of Georgia and Snuggedy Swamp, S.C.: *S. Car. Acad. Sci. Proc. for 1977.*
- *Cohen, A.D. and Staub, J.R., 1977, A depositional Model derived from study of modern peats which can be used to predict the economic characteristics of certain back-barrier coals: *Geol. Soc. Amer. Abst. with Prog.*, 9(7):931.

- Given, P.H. and Cohen, A.D., 1977, Interdisciplinary studies of peat and coal origins, Book Brief: Geology, 5,(6):254-255.
- Staub, J.R. and Cohen, A.D., 1978, Kaolinite-enrichment beneath coals: a modern analog, Snuggedy Swamp, South Carolina: Jour. Sed. Pet., 48(1):203-210.
- *Cohen, A.D. and Corvinus, D.A., 1978, Palynology and petrography Snuggedy Swamp, S.C.: Amer. Assoc. Stratig. Palyn. Abst. with Prog., p. 8.
- *Cohen, A.D., 1979, The Okefenokee Swamp: A low sulfur end-member of a depositional model for coastal plain coals: 9th Inter. Carb. Cong. Abst., p. 41.
- Cohen, A.D., 1979, The Okefenokee Swamp: A low-sulphur end member of a depositional model for coastal plain coals: Compt. Rendu, 9th Intern. Carb. Cong., 4:289-298.
- Corvinus, D. A. and Cohen, A. D., 1979, Pre-maceral characteristics of carbonaceous sediments from Snuggedy Swamp. South Carolina: (9th Congres Intern. de Stratigraphie et de Geologie du Carbonifere, 4:171-181.
- Clausen, C.J., Cohen, A.D., Emiliani, C., Holman, J.A., and Stripp, J.J., 1979, Little Salt Spring Florida: An underwater site preserving earliest wooden artifacts in N. America: Science, 203:609-614.
- Staub, J.R. and Cohen, A.D., 1979, Snuggedy Swamp of South Carolina: A back-barrier estuarine coal-forming environment: Jour. Sed. Pet., 49:133-143.
- *Corvinus, D.A. and Cohen, A.D., 1979, Petrography of Snuggedy Swamp peats: 9th Inter. Carb. Cong. Abst., p. 45.
- Cecil, C.B., Stanton, R.W., Dulong, F.T., and Cohen, A.D., 1979, Experimental coalification of Taxodium peat from the Okefenokee Swamp, Georgia: In, Donaldson et al (eds.), Carb. Coal Short Course and Guidebook, West Virginia Geological and Economic Survey, pp. 129-141.
- *Cohen, A.D., 1979, Resinoid precursors in Okefenokee and Everglades peats: 9th Inter. Carb. Cong. Abst., p. 41.
- *Cecil, C.B., Stanton, R.W., Allshouse, S.D., and Cohen, A.D., 1979, Effects of pressures on coalification: 9th Inter. Carb. Cong. Abst., p. 32.
- *Cohen, A.D., 1979, Properties of organic constituents occurring in peats and surface litter, as the precursors of organic phytoclasts in sedimentary rocks: Amer. Assoc. Stratig. Palyn. Ann. Mtg. 1979.
- Cohen, A.D. and Spackman, W., 1980, Phytogenic organic sediments and sedimentary environments in the Everglades-mangrove complex, Part III: Decomposition of Plant Tissues and the Origin of Coal Macerals: Palaeontographica, 172(B):125-149.
- Corvinus, D.A. and Cohen, A.D., 1980, Microbotanical composition of Okefenokee peats: 6th Inter. Peat Cong. 1980, pp. 538-541.
- Cohen, A.D., 1980, A microtome sectioning procedure useful in producing precise descriptions and classifications of peats: 6th Inter. Peat Cong. 1980, pp. 21-23.
- Andrejko, M.J. and Cohen, A.D., 1980, The geochemical and paleoecological significance of silicon accumulator plants in southeastern Salt Marshes: Florida Scientist, v. 43.
- *Andrejko, M.J. and Cohen, A.D., 1980, The comparative distribution of siliceous and non-siliceous inorganic matter between two contemporaneous coal-forming environments; Snuggedy Swamp and Okefenokee Swamp: Geol. Soc. Amer. Abst. with Prog., 12(7):389.
- *Corvinus, D.A. and Cohen, A.D., 1980, Petrographic and fluorescence characteristics of Okefenokee peats: Geol. Soc. Amer. Abst. with Prog. 12(7):406.
- Cohen, A.D., 1980, South Carolina peat deposits: Proceedings of Technical Conf. on Peat: UOP/SDC, 1:75-90.
- Cohen, A.D., Tisdale, M., Holmes, M., Corvinus, D., Andrejko, M., Olson, N., Abbott, W., and Vigerstad, T., 1980, Peat resources of S. Carolina: alternative energy resources: Inst. of Gas Technology, 2:35-65.
- Cohen, A.D., Tisdale, M., Corvinus, D., Holmes, N., Andrejko, M., Olson, N.K., Abbott, W., and Vigerstad, R., 1980, State resource estimation: South Carolina: Proceedings of the U.S. Dept. of Energy Conf. on Peat, 2:93-133.
- *Andrejko, M.J., Gerbeth-Jones, S., Aulbach-Smith, C., and Cohen, A.D., 1981, Scanning electron microscopy of common silicophytoliths for the correlation of peat types in the southeastern United States: Geol. Soc. Amer. Abst. with Prog., 13(7):397.
- *Cohen, A.D., 1981, Predicting characteristics of coal seams from studies of modern peat deposits: Geol. Soc. Amer. Abst. with Prog., 13(7):428.
- Andrejko, M.J., Raymond, R., and Cohen, A.D., 1982, SEM observation of dissolution and microboring features on fresh water sponges spicules. Scanning Electron Microscopy, pp. 629-638.
- Andrejko, M.J., Raymond, R., Erhlich, R., and Cohen, A.D., 1982, Evidence for pervasive bioerosion of silica substrates in a freshwater peat environment: AAPG Bull., 66(5):543.
- Cohen, A.D., 1983, Obtaining more precise descriptions of peat by use of oriented microtome sections: In: Jarrett, P.(Ed.): Testing of Peats and Organic Soils, Amer. Soc. for Testing and Materials, STP 820:21-36.

- *Cohen, A. D., Andrejko, M. J., Bardin, S. W., and Knight, R. A., 1982, Using vertical and lateral variations in peat deposits of the Okefenokee Swamp for predicting compositional variations in intrashoreline coal seams: *Geol. Soc. America Absts. with Programs*, 14(7):465.
- *Andrejko, M. J., Cohen, A. D., Raymond, R., Bardin, S., and Knight, R., 1982, Stratigraphic distribution of inorganic constituents within Okefenokee peats, a cross-sectional comparison through two major peat-forming environments: *Geol. Soc. America, Absts. with Programs*, 14(7):433.
- *Scherer, R. P., Cohen, A. D., Andrejko, M. J., Raymond, R., Jr., and Gooley, R., 1982, Freshwater diatom assemblages from surface peats of the Okefenokee swamp-marsh complex of southern Georgia: *Geol. Soc. America Absts. with Programs*, 14(7):609.
- Andrejko, M.J., Fiene, F., and Cohen, A.D., 1983, The comparison of ashing techniques for the determination of inorganic content of peats: In: *Testing of Peats and Organic Soils*, American Society for Testing and Materials - STP 820:5-20.
- *Cohen, A.D., Bardin, S.W., and Raymond, R. Jr., 1983, Distribution of sulfur in Snuggedy Swamp peats: *Geol. Soc. Amer. Abst. with Prog.*, 15(6):546.
- Cohen, A.D. and Andrejko, M.J., 1983, Use of models based on modern peat deposits to predict the distribution of mineral matter in coals: In: *Proc. of Workshop on Mineral Matter in Peat*, Los Alamos, N.M., pp. 77-86.
- Andrejko, M.J., Cohen, A.D., and Raymond, R. Jr., 1983, Origin of mineral matter in peat: In: *Proc. of Workshop on Mineral Matter in Peat*, Los Alamos, N.M., pp. 25-38.
- Cohen, A.D., 1983, Micropetrographic characterization of peats: In: *International Symposium on Peat Utilization*, Center for Environmental Studies, Bemidji, Minn., pp. 431-443.
- Corvinus, D.A. and Cohen, A.D., 1984, Petrographic and fluorescence characteristics of Okefenokee peats: In: *Okefenokee Swamp: Its Natural History, Geology, and Geochemistry*, Wetland Surveys, pp. 651-667.
- Cohen, A.D., Corvinus, D., and Andrejko, M., 1984, Peats of the Okefenokee swamp-marsh complex: In: *Okefenokee Swamp: Its Natural History, Geology, and Geochemistry*, Wetland Surveys, pp. 493-553.
- Fearn, L. and Cohen, A.D., 1984, Palynology of Okefenokee Swamp: In: *Okefenokee Swamp: Its Natural History, Geology, and Geochemistry*, Wetland Surveys, pp. 423-443.
- Corvinus, D.A. and Cohen, A.D., 1984, Petrographic characteristics of carbonaceous sediments from the Snuggedy Swamp of South Carolina: *Compt. Rendu, Inter. Carb. Cong.*, 30 pp.
- Scherer, R.P. and Cohen, A.D., 1984, Diatoms in Okefenokee Swamp peats: In: *Okefenokee Swamp: Its Natural History, Geology, and Geochemistry*, Wetland Surveys, pp. 456-467.
- Andrejko, M.J. and Cohen, A.D., 1984, Scanning electron microscopy of silicophytoliths from the Okefenokee swamp-marsh complex: In: *Okefenokee Swamp, Its Natural History, Geology, and Geochemistry*, Wetland Surveys, pp. 468-492.
- Cohen, A.D. and Andrejko, M.J., 1984, Premaceral contents of peats correlated with proximate and ultimate analyses, In: (R. Winans and J. C. Crelling, eds), *Chemistry and Characterization of Coal Macerals*, Amer. Chem. Soc. Symposium Series, 252:21-32.
- *Cohen, A.D., Spackman, W., and Raymond, R. Jr., 1984, Occurrence and distribution of sulfur in peat-forming environments on the Atlantic Coastal Plain: *Geol. Soc. Amer. Abst. with Prog.*, 16(3):129-130.
- *Fair-Page, T. and Cohen, A.D., 1984, Paleoenvironmental reconstruction of a West-Central Okefenokee swamp-forest based on pollen stratigraphy: *Amer. Assoc. Stratig. Palynologists, Seventeenth Ann. Meeting, Prog. with Abst.*, p. 7.
- *Raymond, R. Jr., Bish, D.L., and Cohen, A.D., 1984, Alteration of volcanic ash in a Costa Rican peat deposit: relevance to clay partings in coal: *Geol. Soc. Amer. Abst. with Prog.*, 16(6):631.
- *Cohen, A.D. and Raymond, R. Jr., 1984, Peat deposits of Costa Rica: *Geol. Soc. Amer. Abst. with Prog.*, 16(6):474.
- Cohen, A.D., 1984, Evidence of fires in the ancient Everglades and coastal swamps of southern Florida: In: Gleason, P.J. (ed.) *Environments of South Florida, Present and Past II: Miami Geol. Soc. Memoir*, pp. 459-464.
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- *Raymond, R., Cameron, C.C., and Cohen, A.D., 1985, Relationship between peat geochemistry and depositional environments, Cranberry Island, Maine: *Amer. Chem. Soc. Annual Meeting (invited abstract)*.
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Cohen, A. D., 2008, Effects of Droughts and Fires on Peatland Carbon Sinks: A Case Study of Changes Following the Massive Fires of 2007 in The Okefenokee National Wildlife Refuge, NSF Annual Report, 5 pp.

Hauseman, S. and Cohen, A.D, 2008, Paleoflood Reconstruction of the Congaree National Park, CONG-00057.

8. PUBLIC LECTURES:

"Origin of Coal: A Botanist's Prospective" 1970, Univ. of Illinois Lecture Series, Botany Dept. (**Invited**)

"Petrologic and Petrographic Methods for Study of Peats" 1970, U of Indiana Seminar, Geology Dept. (**Invited**)

"Petrologic Investigation of Some Peats of S. Florida" 1970, U. of Ill. & Geol. Survey Colloquium (**Invited**)

"Origin of High-Sulfur Coals" 1974, West Virginia Univ., (**Invited**)

"Applications of Palynology to Archeology", 1969, Univ. of Georgia, Archeology Dept. Seminar (**Invited**)

"Peats of the Everglades and Okefenokee Swamp" 1972, Seminar Series, S. Illinois Univ., Botany Dept. (**Invited**)

"Peat-Forming Environments of the Okefenokee Swamp" 1975, Univ. of West Virginia, (**Invited**)

"Origin of Some Constituents of Lignites and Bituminous Coals" 1975, Univ. of West Virginia

"Petrology of Peats from the Everglades and Okefenokee Swamp" 1976, U. of Delaware, Geology Dept. (**Invited**)

"Genesis of Coal" 1978, S. Illinois Univ. (**Invited**)

"Depositional Models for Coal Formation" 1979, U.S. Geol. Survey, Washington, D.C.

"Properties of Org. Constituents in Peats and Surface Litter" 1979, Kerogen Sympos., A.A.S.P. Ann. Mtg., Dallas.

"Potential for S. Carolina Peats" 1979, Renewable Energy Conference, Fripp Island, S.C.

"Study of Modern Peats to Understand the Origin of Compos. of Ancient Coals" 1980, Univ. of N. Mexico and State Bur. of Mines and Mineral Resources (**Invited**)

"Peat Resources of S. Carolina" 1980, Conference on Peat as an Alternative Energy Source, Inst. of Gas Technology (**Invited**)

"Predicting Characteristics of Coal Seams from Studies of Modern Peat Deposits" 1981, Geol. Soc. America Ann. Mtg. Symposium on Origin of Coal.

"Use of Oriented Microtome Sections for Classification of Peats" 1982, ASTM Symposium, Toronto (**Invited**)

"Applications of Peat Petrography to Studies of Origin of Coal" 1985, U.S. Geological Survey, Washington, D.C.

"Applications of Peat Petrography to Wetland Biogeochemical Research" 1985, Ann. Mtg. Amer. Soc. Lim. and Oceanography, Minneapolis (**Invited**)

"Processes of Phytogenic Organic Sedimentation and Their Implications Relative to the Origin of Coal Seams" 1986-I.A.S. Ann. Mtg., Invited Keynote Address, Canberra, Australia.

"Occurrence of Sulfur in Shoreline-Related Coal-Forming Environments" 1986-Soc. of Mining Eng. Ann. Mtg., New Orleans (**Invited**)

"Interpreting the Characteristics of Coal Seams from Chemical, Physical, and Petrographic Studies of Peat Deposits", 1986- Intern. Sympos. on Coal and Coal-Bearing Strata, Invited Keynote Address, London, UK

"Petrographic/Botanical Composition of the Peat Deposits of Florida Bay," Florida Bay Sympos., Miami, 1987.

"Peat Deposits of Central America", 1989, Circum-Pacific Conference, Costa Rica (**Invited**).

"The Changuinola Peat Deposit of Panama", 1989, Int. Geol. Congress, Washington, DC. (**Invited**)

- "Comparison of Domed and Planar Peat Deposits in Coastal Plain Settings of Central and South America", 1989, Geol. Soc. Amer. Ann. Mtg.
- "Origin of Nearshore Petroleum from Terrestrial Sources", 1990, Amoco (invited)
- "Petroleum Source-rock Potential of Strandline Algal Deposits of Abu Dhabi", 1990, Texaco and Shell Oil Companies, Houston (**Invited**)
- "Petrographic Studies of Peat Deposits: Significance Relative to the Origins of Coal Seams and Nearshore Petroleum", 1991, Univ. SW Louisiana (**Invited**)
- "The Peat to Coal Transformation: Where Should the Boundary be Set?" 1991, Amer. Soc. Test. & Materials, Committee D-5, Charlotte, NC (**Invited**)
- "Quaternary Evolution of the Coastal Zone of SC: Climatic and Sea Level Changes", 1992, Sea Grant Consortium, College of Charleston (**Invited**).
- "Coastal Plain Peat Deposits of the Tropical Americas" (**Invited Keynote Address**), 1992, Geol. Assoc. Canada
- "Sulfur Contents of Peats at the Confluence of Carbonate and Peat-forming Depositional Systems, SE Florida: 1993, AAPG Eastern Sect. Mtg., Williamsburg, VA., (**Invited**)
- "A Petrographic-Botanical Technique Applicable To The Modeling Of Biogeochemical Processes", 1994, Third Sympos. on Biogeochemistry of Wetlands, Orlando, FL.
- "Properties of Peats as Media for Remediation of Water Contaminated with Metals and/or Gasoline-derived Hydrocarbons", 1995, Geological Soc. of America Annl. Mtg., New Orleans, La, (**Invited**).
- "Palynopetrographic Methods for Predicting the Potential of Organic Sediments in Carolina Bays to Adsorb Contaminants from Ground Water", 1995, Hydrology Symposium, Westinghouse Sav. R. Site, (**Invited**).
- "Petrographic/Chemical Changes Induced by Artificial Coalification of Peats", 1995, Soc. Org. Pet. Ann. Mtg.
- "Irradiating Peat: What Effect Does this have on Its Ability to Extract BTEX & Cd from Contaminated Water", 1995, Geological Soc. Amer. Ann. Mtg, N. Orleans.
- "Applications of Peat-Based Sorbents for Removal of Metals from Contaminated Water", 1995, Ann. Mtg. Emerging Technologies in Hazardous Waste Management, Amer. Chem Soc., Atlanta, (**Invited**)
- "Palyno-petrographic Investigations of Peat Deposits: Implications Regarding Anthropogenic Impacts, Remediation of Hazardous Wastes, and Wetlands Restoration", 1996, 6th N. American Paleontological Convention, Washington, D.C., (**Invited**)
- "Evaluating Anthropogenic Impacts on Peat-containing Wetlands Using Palyno-Petrographic Methods: Examples from the Everglades of Florida and the Savannah River Site in South Carolina, 9th Int. Palynological Congress, Houston, TX, (**Invited**).
- "Use of Palyno-Petrographic Methods for Environmental Remediation", ORISE/SRS Ann Mtg, Augusta, GA, 1996, (**Invited**).
- "Micropetrographic Methods Applied to Determ. the Paleoecological History of Wetlands", National Wetlands Res. Center, Lafayette, LA, 1997, (**Invited**)
- "Micropetrographic Methods Applied to Determ. the Paleoecological History of Wetlands", Fl. Internat. Univ. & Everglades Nat. Park, Miami, FL, 1997, (**Invited**)
- "Artificial Coalification of Peats: Resulting Petrographic Changes", U. SW Louisiana, Lafayette, 1997, (**Invited**)
- "Peat Filters for Bioremediation of Metals at SRS Coal Waste Pits" Westinghouse S. R. Site, SC, 1997, (**Invited**)
- "Micropetrography as a Tool for Assessing the Paleoecologic History and Anthropogenic Impacts on Florida Bay and the Lower Everglades-Mangrove Complex": Florida Bay Symposium, Key Largo, Fl., 1998, (**Invited**)
- "Tree Islands of the Southern Everglades", Tree Island Sympos., Boca Raton, Fla. Atlantic Univ., 1998, (**Invited**)
- "Combining Micropetrographic and Palynologic Techniques to Aid in Interpreting the Paleoecological History of a Wetland at SRS", USC/Aiken, SC 1998, (**Invited**)
- "Assessing Anthropogenic Impacts on Peatlands Using Combined Palynologic and Petrographic Techniques, Ann. Mtg. Amer. Assoc. Strat. Palynologists, Savannah, GA 1999 (**Invited**)
- "Micropetrography as a Tool for Distinguishing Natural from Anthropogenic Impacts on Organic-rich Wetlands" (w/S. Ready, J. Shainwald, and T. Williams), USC Water Center Intern Presentations, 2001 (**Invited**)
- "Artificial coalification: a method to investigate coal maceral origins and to aid in predicting coalbed methane production" (w/ A.M. Bailey), Univ. Louisiana/Lafayette, 2003 (**Invited**)
- "Effects of Depositional Environments on Coalbed Methane Production"— CBM Symposium, Burlington Resources, Houston, TX, 2005 (**Invited**)
- "Gilbert H. Cady Award – Acceptance Speech" Geol. Soc. Am. Ann. Mtg., Salt Lake City, UT, 2005 – (**Invited**)
- "Effects of droughts and fires on peatland carbon sinks: a case study of changes following the massive fires of 2007 in the Okefenokee National Wildlife Refuge, ONWR Research Conf. & Workshop, Folkston, Ga, 2007 – (**Invited**)

- “Paleoecological Research in the Congaree National Park Using Pollen and Spores, Plant Fragments, and Diatoms”,
Congaree Nat. Park Res. Sympos. , Columbia, SC, 2008– **(Invited)**
- “Paleoecological Research in the Congaree National Park, Pre-field Conference, Friends of the Pleistocene, Oct 24, 2008-
(Invited)
- “Effects of Catastrophic Fires of 2007 on the Peat Deposits and Peat-forming Ecosystems of the Okefenokee Swamp” –
EOS Seminar , Oct 2010, **(Invited)**

9. CONSULTING ACTIVITIES:

<u>Dates</u>	<u>Agency</u>	<u>Nature of Service</u>
1971	Univ. of Indiana	Peat Dep, Florida
1974	Univ. of Illinois	Peat Sectioning Techniques
1977	U.S. Fish & Wildlife	Economic Quality of Peats
1973	Bur. of Fish Res Brazil	Peats of Colombia, S.A.
1969-74	Univ. of Miami	Peats of Bermuda
1976	Shell Oil Company	Origin of Coal
1972-79	Governor's State Univ.	Origin of Coal
1969	Penn. State Univ.	Origin of Coal
1977	Cities Service Oil Co.	Organic seds
1977	Gen.Dev.Found.	Florida
1977	U.S. Peat Corp.	Peats of Louisiana & S.C.
1976	U.S. Dept. of Justice	Legal Consultant
1978	U.S. Dept. of Justice	Legal Consultant
1978	National Geographic	Technical Consultant
1978	U.S. A.C. ENG	Peat Survey, N.C.
1978	CitCo.	Organic Sedimentation
1978	Univ. of Miami	Peat Petrol., Surname
1979	Univ. of N. Carolina	Peat of N. Carolina
1979-80	S.C.E.R.I.	Peat of S. Carolina
1980	Exxon Prod. Research	Peats of Georgia
1980	Cont. Forest Prod.	Peats of GA, SC, & FL
1980	Int. Pap.	Energy Peat Resources
1980-81	S.C. Energy Res. Inst.	Peat Resources
1981	Int.Pap.	Energy Peat Resources
1981	Buckeye Cellulose Co.	Economic Peat Res. Fla
1981	Exxon	Origin of Coal
1981	Speedling Co.	Peat Moss Proc
1981-82	S.C. E Res. Inst.	Peat Resources of S. Carolina
1982	Georgia Tech. Univ.	Peat Resources (Georgia)
1982	CF Univ.	Peat Resources of Florida
1982	U.S. Dept. of Justice	Legal Consultant on Peat
1982	U.S. Corps. of Engineer	Peat Res. (N. Carolina)
1982	Geol. Survey of Utah	Coal Pet Short Course
1983	Louisiana Geol. Survey	Peats Mississippi Delta
1983	Univ. N. Mexico	Coal Geology Course
1984	New Mexico ERD I	Coals of New Mexico
1984	BBC	Tech. Consult.(Origin of Coal)
1984	Univ. of South Carolina	Peats Southeastern U.S.
1984	Florida Geological Survey	Peats of Florida
1984	Nitragin Co.	Peat as Soil Cond for Soybean
1984	Exxon	Coals of New Mexico
1985	New Mexico ERD I	Coals of New Mexico
1986	New Mexico ERD I	Coals of New Mexico

1986	Japan Broadcasting Co.	Origin of Coal
1987	Amoco Production Co.	Origin of Coal
1987	New Mexico ERD I	Coals of New Mexico
1988	Los Alamos Natl. Lab.	Wastewater treatment
1989	Modrall Law Firm	Coals of New Mexico
1989	Univ. SW Louisiana	Peat Petrography
1990	Intern. Paper	Uses of Peat
1991	Miller, Cassidy	Peat C. Florida
1991	Chicora Foundation	Archeol. SC
1991	Amoco	Oil from Coal
1992	Amoco, Exxon, Conoco, Arco	Short Course on Coal
1992	Limehouse Properties	Peat Resources, SC
1993	Amoco, Exxon, Conoco, etc.	Org. Petrol. Short Course
1994	Amoco, Exxon, Conoco, etc.	Org. Petrol. Short Course
1994	S.Fl. Wat. Mgm. Dist.	Florida Bay Restoration
1995	Chicora Foundation	Archeol. SC
1995	Amoco, Exxon, Conoco	Short Course on Coal
1995	S.Fl.Wat. Managm. Dist.	Paleoecology of WCA-2A
1996-97	Amoco	Artificial Coalif. Coal-bed Methane
1996	Burlington Resources	Artificial Coalif. Coal-bed Methane
1996	Mobil Oil	Artificial Coalif. Coal-bed Methane
1996	Vastar Resources	Artificial Coalif. Coal-bed Methane
1997	Burlington Resources	Artificial Coalif. Coal-bed Methane
1997	Mobil Oil	Artificial Coalification/CBM Experiments
1997	Vastar Resources	Artificial Coalification/CBM Experiments
1997	New South Associates	Archeological Site, N. Carolina
1997	Chicora Foundation	Archeological Site, Charleston Area
1997	Everglades Nat. Park	Paleoec. Buttonw. Can. Reg., Evergl.
1998-99	Everglades Nat. Park	Paleoec. Coot Bay Ham., Evergl.
1998	Burlington Resources	Artificial Coalification Experiments
1998	Vastar Resources	Artificial Coalification Experiments
1998-99	Chicora Foundation	Archeological Stud., Charleston Area
1999-00	Burlington Resources	Artificial Coalification Experiments
1999-00	Vastar Resources	Artificial Coalification Experiments
2000-01	New South Assoc.	Archeological Studies, Albany, NY
2000-01	Everglades Nat. Park	Paleoecology of Coot Bay Ham., ENP
2002-03	Panamerican Consultants	Climate Change, Chatahoochee Co, GA
2003	Chicora Found	Archeol. Studies, Palynology
2004	New South Associates	Archeol. Studies, Palynology
2005	New South Associates	Archeol. Studies, Palynology
2005	Burlington Resources	Short Course CBM/Okefenokee Swamp
2006	Nexen Co.	Short Course, Modern Environ. Coal Form.
2006	Various Companies, Calgary	Short Course, Modern Environ. Coal Form.
2006	SC Dept. Nat. Resources	Palynology of Johannes Kolb Archeol. Site, SC
2007	Sav. Riv. Natl. Lab.	Peat-bed Removal of Metals at SRS
2008	New South Assoc.	Sav. Harbor Envir. Proj.
2008	New South Assoc.	Palynology of Archeol. Pot Shards/Artifacts
2009	Synthetic Genomics	Susceptibility of Coal Macerals to Microbial Digestion
2010	ConocoPhillips Co.	Origin of Coal & CBM Source Rocks

10. UNIVERSITY ACTIVITIES:

A. Committees:

- Dept. Curriculum Committee- 1971-73
- Dept. Space Committee- 1973-74
- Dept. Symposium Committee- 1970

Dept. Graduate Committee- 1976
 Dept. Undergraduate Committee- 1976-1978
 Dept. Undergraduate Advisor
 Dept. Symposium Chairman- 1976
 USC Freshman Advisor
 Dept. Finance Committee- 1976-1982
 USC Faculty Senate- 1976-1980
 Dept. Undergraduate Committee- 1990-94
 USC Faculty Senate - 1993-96
 USC Standards & Petitions Committee- 5/97
 USC - Chairman: Faculty Search Cmt, Environ. Geosciences Pos.- 97-98
 USC Patent & Copyright Committee - 1997-99 (Chair, 99
 Dept. Space Committee- 1990-94, 98-99
 Dept. Graduate Committee- 1970-74, 1993-2002
 College Scholastic Standards & Petitions Committee – 2000-02
 Dept. Faculty Search Committee, Sed-Strat. Position – 2002
 Dept. Environmental Committee – 2001-02
 Dept. Health and Safety Committee - 1992-99 (Chair 99-2004)
 Dept. Tenure & Promotion Committee – 1999-2007
 Dept. Undergraduate Committee – 2003-2007
 Dept. Graduate Committee (Acting Chair 8/05) – 2005-2006
 Dept. Health and Safety Committee – (Chair) – 2005-2006
 USC Phi Beta Kappa Committee – 2005-2007
 Dept. Peer Review Committee – (Chair) – 2005-2006
 USC Faculty Senate – 2003-2005
 Dept. Tenure & Promotion Com. (Chair) – 2006-2007
 Dept. Undergraduate Committee – 2008-2010
 MSCI Undergrad Awards Committee – 2007-2010
 Dept. Peer Review Committee – 2007-2008

B. Courses Taught:

Physical Geology (Introduction to the Earth) (300 students F or Sp & 30 students Sum)
 Historical Geology
 Earth Systems Through Time
 Stratigraphy and Sedimentation
 Organic Sedimentation and Coal Genesis
 Palynology
 Paleobotany
 Coal Petrology and Advanced Coal Petrology
 Paleontology
 Peat petrology
 Taphonomy
 Many Advanced Level Seminars & Field Courses in Above Topics
 SC Honor's College Summer Intern Program for HS students
 Anthropogenic Impacts on Coastal Environments of S. Florida

11. COMMUNITY SERVICE:

<u>Dates</u>	<u>Duties/Service</u>
1972	Lectured to fifth grade class, S. IL
1973	Lectured to Rock and Mineral Club, S. IL
1979	S.C. State Alternative Energy Research Subcommittee
1983	Lectured to 1st grade class, Los Alamos, NM
1985	Lectured to Los Alamos Geological Society
1988-89	Lectured to Irmo Middle School
1988-89	Lectured to Harbison West Elementary School
1989-90	Science Textbook Committee for Irmo Middle School, SC

1989-91	Asst. Den Leader, Cub Scout Pack 301
1993-2009	SE Regional Science Fair Judge
1999-2009	Supervised HS students: Governor's Sch for Science & Math Summer Intern Program
2009-2010	Research presented at Annual Palmetto Pillar Awards: Greater Columbia Chamber of Commerce

12. PROFESSIONAL OR LEARNED SOCIETY:

<u>Dates</u>	<u>Duties/Service</u>
1971	Symposium Chair, Coal Div., GSA
1974	Symposium Co-Chair, Coal Div., GSA
1974	Field Trip Co-Chairman, Coal Div., GSA
1973-75	Chair, Coal Petrology Committee, GSA
1975	Joint Technical Program Committee, GSA
1975	Vice Chair, Coal Div., GSA
1976	Chair, Coal Div., GSA
1975-76	Gilbert H. Cady Award Committee, GSA
1976-77	Chair., Nominating Committee, Coal Div., GSA
1976	Symposium Co-Chair, GSA
1978-79	Nominating Committee, Coal Div., GSA
1979	Nominating Committee, AASP
1976-85	Chair, Peat Classification, A S. T. M
1983-88	Chair, GSA Liaison Committee for Peat
1984-85	Chair, ASTM, Peat Fiber Standard Com.
1985	Symposium Chair, Int. Peat Society Mtg.,
1985	Symposium Chair, GSA
1986-88	Vice-Chair, ASTM Subcom on Peat
1989-90	President-Elect, The Soc. Organic Petrology
1990-91	Chair, Nom. Committee, TSOP
1992-94	Chair, ASTM Field Classification of Peat (Von Post) Committee
1993	Co-Chair, AAPG Eastern Sect., Energy Min. Sympos.
1992-94	Chair, ASTM Peat Classification (Field) Standard Com.
1992-94	ASTM Liaison bet. Peat (D18) & Coal (D5) Subcom.
1997-98	Geol. Soc. America, Distinguished Serv. Award Com
1999	Chair, American Association Stratigraphic Palynologists Symposium at Annual Mtg.
1999-2000	Consultant to: Council of SC professional Archeologists
1995-2005	Expert Consultant on Environment for State of Florida (SFWMD)
2005-2006	Soc. Organic Petrology- Hon Member Nominating Committee
2008-2009	TSOP John Castaño Honorary Membership Award

Member or Fellow of:

Geological Society of America (**Fellow**)
 Amer. Assoc. Advancement Science
 Amer. Geophysical Union
 Amer. Assoc. Stratigraphic Palynologists
 Amer. Assoc. Petroleum Geol., (**Charter Member**, Div. of Envir. Geosciences)
 Int. Peat Society
 Soc. for Organic Petrology
 Amer. Soc. for Testing & Materials
 Botanical Soc. America

13. GRANTS RECEIVED:

<u>Date</u>	<u>Project</u>	<u>Agency</u>	<u>Amount</u>
1969	Okefenokee Swamp	Nat. Sci Foundation	\$36,800

1971	Okefenokee Swamp	Nat. Sci. Foundation	\$47,000
1973	Okefenokee Swamp	Nat. Sci. Foundation	\$52,000
1975	Okefenokee Swamp	Nat. Sci. Foundation	\$80,200
1977	Okefenokee Swamp	Nat. Sci. Foundation	\$90,500
1978	Salt Spring, FL	Gen. Develop. Found.	\$1,200
1979	Peats of SC	Dept. of Energy	\$150,000
1980	Okefenokee Swamp	Nat. Sci. Foundation	\$100,000
1980-81	Peats of SC	Dept. of Energy	\$150,000
1980-81	Peats of Florida	Nat. Geog. Society	\$16,000
1980	Myrtle Beach, SC	Sea Grant	\$2,000
1981-82	Peats of SC	Dept. of Energy	\$110,000
1982	Okefenokee Swamp	Nat. Sci. Foundation	\$200,000
1982	Mineral Matter in Peat	DOE	\$130,000
1983	Mineral Matter in Peat	DOE	\$140,000
1983	Qual. of West Coals	Dept. of Energy	\$160,000
1983	Charact. Peats	Dept. of Energy	\$175,000
1983	Peat Resources,	Interamer. Dev. Bank	\$21,200
1984	Mineral Matter in Peat	DOE	\$150,000
1985	Peat Resources, C.A.	U.S.A.I.D	\$150,000
1985-86	Peat Resources, C.A.	U.S.A.I.D	\$500,000
1986	Mineral Matter in Peat	DOE	\$190,000
1987	Peat Resources, C.A.	U.S.A.I.D.	\$224,000
1985-87	Qual NM Coals	NMERDI	\$800,000
1987-88	Mineral Matter in Peat	DOE	\$190,000
1989-90	Peat Dep. South Car.	SCERDC	\$17,000
1989-90	Undergr. Storage Tanks	EPA	\$24,500
1989-90	Petrol. Source Rocks	Shell Oil	\$10,000
1989-91	Coal Pet. Inv. Trp. Peat	NSF	\$140,000
1990-91	Petroleum Source Rocks	Shell Oil	\$10,000
1990-91	Gasol. Contam. Grndw	EPA	\$79,000
1990-91	Sea-levels So. Carolina	SC Sea Grant	\$6,000
1991	Upland Unit	DOE/SCUREF	\$140,000
1991	Sea-Levels SC	SC Sea Grant	\$7,400
1991-92	Gasol. Contam. Grndw	EPA	\$80,000
1991-92	Coal Particle Grain Shape	EPRI	\$33,300
1991	Patent Dev. Award	USC	\$3,600
1991-92	Sea-Levels SC	SC Sea Grant	\$7,442
1992-93	Upland Unit	DOE/SCUREF	\$144,000
1993	Mod. Pollen Ref. Coll.	Amoco Prod. Co	\$4,900
1993-94	Sea-Levels, SC	SC Sea Grant	\$5,000
1996	Hog Farm Odors	USDA	\$10,000
1993-97	Coal Pet. Trop. Peat	NSF	\$197,614
1996	Innov. Teaching Geosci	USC/Teach. Dev. Grant	\$1,000
1996-97	Palynological Character	DOE/SCUREF	\$32,206
1997	Field Training Seminars (2)	EPA/EPSCoR	\$3,600
1997	Paleocol. Everglades	Everglades N.P	\$2,500
1997-00	Paleobot/Palyn. Collect	Penn. St. Univ.	\$55,175
1998	Field Training Seminars (2)	EPA/EPSCoR	\$3,600
1998-99	Everglades Nat Park	US Dept Interior	\$36,383
1999	Field Training Seminar	EPA/EPSCoR	\$2,800
2000	Coot Bay Hammock	Everglades Nat. Park	\$2,500
2000	Field Training Seminar	EPA/EPSCoR	\$3,794
2000	Carb/Phosphate Sampling Syst.	SCRI	\$36,750
2001	Everglades Nat Park	US Dept Interior	\$2,500
2001	Univ. of South Carolina	Provost's Teach. Dev Award	\$1,000
2001	Univ. of South Carolina	SOE Award	\$500

1997-02	Sav. R. Peatland Filters	DOE/Water Center	\$249,468
2002	GSSM Summer Interns Prog.	USC Honors College	\$1,500
2002	Field Training Oke/Everglades	EPA/SC-EPSCoR	\$7,616
2002-03	Paleoecology	Ft. Benning	\$26,000
2003	Hunley Submarine Pollen Study	Warren Lasch Found.	\$500
2003-4	Educational Outreach/Training	EPA/SC-EPSCoR	\$11,052
2004	Pollution Remed. Floating Peat	USDA/Adams/Poach	\$10,000
2004	Kolb Site, Darlington Co, SC	SC DNR	\$1,000
2004	King's Mountain St. Park	Florida A&A Univ.	\$2,400
2003-05	GSSM Summer Interns Prog.	USC Honors College	\$7,500
2004-05	Congaree Nat. Park Geology	SCGS/DOI	\$108,000
2005	Trace elements in Cong. Nat. P.	CESU	\$5,287
2007-09	Juncus/Palynomorphic Signa...	SC SeaGrant Consort	\$7,864
2007-08	Paleo-flood Hist. Cong R. Fld Pl	USDOI/NPS (Submitted)	\$29,451
2007-10	Effects of Fires on Vegetation	USBLM/JFSP (Submitted)	\$249,529
2007-10	Effects of Fires, Oke Swmp	Nat Sci Found	\$150,056
2008-2011	Carbon Sinks, Okefenokee NWL	US DOI	\$15,000
2008-2011	Refining Crushed Coal/Electricity	Clean Coal Center/Santee Cooper	\$70,000

14. PATENTS & DISCLOSURES:

A. Patent: 1991 "Method for In-Situ Removal of Hydrocarbon Contaminants from Groundwater" (Patent #. 5,057, 227) to USC/Arthur D. Cohen

B. Disclosure: "Refining Crushed Coal by Particle Shape" -USC ID Number 91051 (USC/Cohen)

C. Disclosure: "Radiating Peat with Gamma Radiation to Improve its Ability to Extract Hydrocarbons from Water" - RCT Disclosure No. 221-B292-95 (USC ID Number 95098) (USC/Cohen)