SELECTED LIST OF PUBLICATIONS

- Sartono, O., Marrero-Cuebas, R., and Suen, C.J. 2008. Estimating the Mixing Proportions of Groundwater Sources in the San Joaquin Valley, California Based on Multivariate Analyses of Major Minerals and Isotopic Data. *EOS Trans. American Geophysical Union*, 89(53), Fall Meet. Suppl., Abstract H33F-1079.
- Sartono, O., Bernal N.F., Suen C.J., and Wang, Z. 2007. Groundwater Flow Through a Fractured Rock Aquifer in the Sierra Nevada Foothills of California. *EOS Trans. American Geophysical Union*, 88(52), Fall Meet. Suppl., Abstract H11B-0490.
- Suen, C. John, Marrero-Cuebas, Rosenelsy and. Bernal Nelson F (2007) Applications of Stable Isotopes as Tracers in Groundwater Studies –Some Examples from the San Joaquin Valley, <u>Groundwater Resources</u> <u>Association Symposium: Application of Isotope Tools to Groundwater Studies</u>, Abstracts, Concord, CA.
- Suen, C.J., Ingraham, N.L. and Bernal, N (2006), Isotope Hydrology of a Pirated Watershed in Fractured Terrain in the Sierra Nevada Foothills, *Eos Trans. AGU*, 87(52), Fall Meet. Suppl., Abstract H43-0551
- Suen, C.J. and Longley, K.E. (2006), A Proposed Solution for Salinity Impairment for the San Joaquin Valley of California, *Eos Trans. AGU*, 87(36), West. Pac. Geophys. Meet. Suppl., Abstract H35B-02
- Suen, C. John, Marrero-Cuebas, Rosenelsy, and Glowacki, Susan D. (2005), Groundwater Quality and Isotopic Studies of the Kings River Alluvial Aquifer, *Geological Society of America, Abstract with Programs*, Vol. 37, No.4
- Marrero-Cuebas, R and Suen, C.J. (2004), Investigation of Nitrate Loading in Groundwater from Eastern San Joaquin Valley, California Using δ^{15} N Isotopic Ratios, *Eos Trans. AGU*, 85(46), Fall Meet. Suppl.
- Glowacki, S.D. and Suen, C.J. (2004), A Survey of δ^{18} O and δ^{15} N Ratios in Ground Water from an Agricultural Community in the San Joaquin Valley, California, <u>Eos Trans. AGU, 85(46), Fall Meet.</u> Suppl.
- Suen, C. John, (2002), Use of Isotope Analysis in Nitrate Source Characterization. <u>Groundwater</u> Resources Association Symposium: *Nitrate in Groundwater: Sources, Impacts and Solutions*, Fresno, CA.
- Raley, E.C. and Suen, C.J. (1999), Geological influence of nitrate occurrence in groundwater in the Arvin Area, Kern County, California. Program abstract, 20th Annual Central California Research Symposium,
- Suen, C. John and St. Clair, Stuart. (1997), Coupling geochemical speciation and contaminant transport models in support of the hazardous waste/mixed waste disposal facility performance assessment. Technical Report, Savannah River Ecology Laboratory, US Department of Energy.
- Suen, C. John, et al. (1996), A coupled Reactive-Transport Groundwater Computer Code for Environmental Applications. <u>30th International Geological Congress</u>, Beijing, China, 4 14 August, 1996, Abstract, Vol.3, p.243.
- Jiang, X., Suen, C.J., Beans, D.M. and Ross, P.P. (1995), Groundwater Flow and Transport Model for the Pinedale Contamination Site in California, <u>American Geophysical Union</u>, <u>Trans.</u>, v. 76, No. 46, Suppl., p. F188.

MacKinnon, R.J., Sullivan, T.M., Suen, C.J. and Simonson, S.A. (1995), BLT-EC (Breach, Leach, Transport, and Equilibrium Chemistry), a Finite-Element Model for Assessing the Release of Radionuclides from Low-Level Waste Disposal Units: Background, Theory, and Model Description. Brookhaven National Laboratory Report BNL-NUREG-52446 , <u>U.S. Nuclear Regulatory Comm.</u> NUREG/CR-6305, 143 pp.

Suen, C.J. (1995), Are all major California cities seriously threatened by earthquakes? <u>California Geology</u>, Sep/Oct, 1995, p.129-132 URL: http://www.osti.gov/energycitations/product.biblio.jsp?osti_id=110938

Suen, C.J. and Sullivan, T.M. (1993), Sensitivity analysis and benchmarking of the BLT low-level waste source term code. Brookhaven Ntl Lab Report BNL-NUREG-52346, <u>U.S. Nuclear Regulatory Comm.</u> NUREG/CR-5943, 66 pp.

Suen, C. John and Sullivan, Terrence M. (1992), A source term computer model for predicting the release rate of radionuclides from a low-level nuclear waste shallow land burial facility. 29th International Geological Congress, Kyoto, Japan, 24 Aug.- 3 Sept., 1992, Abstracts, Vol.3, p.920.

Sullivan, T.M. and Suen, C.J. (1991), Low-level waste source term model development and testing. Brookhaven National Laboratory Report BNL-NUREG-52280, <u>U.S. Nuclear Regulatory Comm.</u> <u>NUREG/CR-5681</u>, 86 pp.

Sullivan, T.M. and Suen, C.J. (1989), Low-level waste shallow land disposal source term model: Data input guide. Brookhaven National Lab. Report BNL-NUREG-52206, <u>U.S. Nuclear Regulatory Comm. NUREG/CR-5387</u>, 323 pp.

Suen, C.J. (1988), Modeling the flow of water in and around shallow burial trenches. <u>Waste Management</u> <u>'88</u>, Vol. 1, p.811 - 820.

MacKinnon, R.J.; Sullivan, T.M. and Suen, C.J. 1994. Models for simulating the release and migration of radionuclides from low-level waste disposal facilities. <u>American Geophysical Union, Trans.</u>, v. 75, No. 16, Suppl., p. 171.

Hoppe, K.W. and Suen, C.J. (1991), Groundwater model of the western part of the Kern River alluvial fan, southern San Joaquin Valley, California. <u>American Geophysical Union</u>, <u>Trans.</u>, v.72, No.44, p.176.

Suen, C.J.; Sutton, S.R.; Rivers, M.L.; Jones, K.W.; Chou, C.-L. and Kuellmer, F.J. (1989), Trace element geochemistry of coal from the Illinois and San Juan Basins using the synchrotron x-ray fluorescence microprobe. <u>Am. Geophys. Union, Trans.</u>, v.70, No.15, p.492.

Suen, C.J., Hoode, S. and Sullivan, T.M. 1992. Benchmarking BLT – A computer code for LLW source term evaluation. <u>Waste Management '92</u>, Proceedings of the Symposium on Waste Management, Tucson, March 1992, p.1447-1452.

Sullivan, T.M. and Suen, C.J. 1991. Low-level shallow land burial source term waste form leaching model development for the BLT computer code. <u>Waste Management '91</u>, Proceedings of the Symposium on Waste Management, Tucson, February 1991, Vol. 2, p.403-410.

Suen, C.J. and Sullivan, T.M. 1990. BLT: A source term computer code for low-level waste shallow land burial. Waste Management '90, Vol. 2, p.111 - 123.

Sullivan, T.M. and Suen, C.J. 1990. Low-level waste shallow land burial source term container breach and waste form leaching model development. <u>Waste Management '90</u>, Vol. 2, p.131 - 138.

Sullivan, T.M., Kempf, C.R., Suen, C.J. and Mughabghab, S.M. 1988. Development of a general model to predict the rate of radionuclide release (source term) from a low-level waste shallow land burial facility. Waste Management '88, Vol. 1, p.989 - 994.

Suen, C.J. and Frey, F.A. (1987), Origins of the mafic and ultramafic rocks in the Ronda Peridotite Massif. <u>Earth Planet. Sci. Lett.</u>, v.85, p.183 - 202.

Frey, F.A., Suen, C.J. and Stockman, H.W. (1985), The Ronda High Temperature Peridotite: Geochemistry and Petrogenesis. <u>Geochim. Cosmochim. Acta</u>, v.49, p.2469 - 2491.

Suen, C.J., Frey, F.A. and Malpas, J. (1979), Bay of Islands ophiolite suite, Newfoundland: Petrologic and geochemical characteristics with emphasis on rare-earth element geochemistry. <u>Earth and Planet. Sci. Lett.</u> v.45, p.337 – 348.

Dickey, J.S., Obata, M. and Suen, C.J. 1979. Chemical differentiation of the lower lithosphere as represented by the Ronda ultramafic massif, Southern Spain. In: <u>Origin and Distribution of the Elements</u>, Proc. 2nd Symposium, Paris-UNESCO, May 1977, p.587 - 595.

Roden, M.; Coish, R.; Frey, F.; Suen, J. 1979. Rare earth element abundances in ultramafic rocks from ocean floors, ophiolites and alpine peridotites. <u>Geol. Soc. Amer. Ann. Meet.</u> (abstract)

Dickey, J.S., Obata, M. and Suen, C.J. 1977. Partial fusion versus fractional crystallization: hypothesis for the differentiation of the Ronda ultramafic massif of southern Spain. In: <u>Magma Genesis</u>, Proc. Am. Geophys. Union, Chapman Conference, Oregon Dept. Min. Indust. Bull. 76, p. 79 - 89.

Suen, C.J. 1978. Magma extraction models for partial fusion in the upper mantle using trace elements as indicators. Geol. Soc. Amer. Ann. Meet. (abstract)

Dickey, J.; Obata, M.; Suen, C.J.; Frey, F.; Lundeen, M. 1977. The Ronda ultramafic complex, southern Spain. Geol. Soc. Amer. Ann. Meet. (abstract)

Thompson, G.; Bryan, W.B.; Frey, F.A.; Dickey, J.S.; Suen, C.J. 1976. Petrology and geochemistry of basalts from DSDP Leg 34, Nazca Plate. Initial Reports of the Deep Sea Drilling Project, Vol. XXXIV.

US Government and California State Publications (4 additional reports already listed above):

C. John Suen, Using isotopic ratios and major minerals data to identify the sources of ground water and ground water nitrate in relation to pesticide residues, California EPA, Department of Pesticide Regulation, No. 05-0102C, 2008, URL: http://www.cdpr.ca.gov/docs/emon/pubs/ehapreps/nitrate_final.pdf

C. John Suen, Metadata Guide for Salinity Data Sources for the Central Valley of California - Final Report ("Central Valley Salinity Data Study" component), CA State Water Resources Control Board, Central Valley Regional Water Quality Control Board, No. 05-416-150-0, 2008, URL:http://www.waterboards.ca.gov/centralvalley/water_issues/salinity/Programs_policies_reports/index.shtml

URL: http://www.osti.gov/energycitations/product.biblio.jsp?osti_id=139362 FEMWATER/BLT. Water or Waste Transport in Soil Sullivan, T.M.; Suen, C.J.[Brookhaven National Lab., Upton, NY (United States)] ESTSC/NRC/R--000024IPCAT00; NESC--1144; 1989 Jul 01

URL: http://www.osti.gov/energycitations/product.biblio.jsp?osti_id=247900 BLT. Code System to Solve for Release and Transport of Contaminants Sullivan, T.M.; Suen, C.J.[Brookhaven National Lab., Upton, NY (United States)] ESTSC/NRC--001097IB38600; 1989 May 01

URL: http://www.osti.gov/energycitations/product.biblio.jsp?osti_id=5258165 Modeling the flow of water in and around shallow burial trenches Suen, C.J., BNL-NUREG-40882;CONF-880201-28; 1988 Jan 01

URL: http://www.osti.gov/energycitations/product.biblio.jsp?osti_id=5392628

Development of a general model to predict the rate of radionuclide release (source term) from a low-level waste shallow land burial facility, Sullivan, T.M.; Kempf, C.R.; Suen, C.J.; Mughabghab, S.M., BNL-NUREG-40880; CONF-880201-26; 1988 Jan 01

URL: http://www.osti.gov/energycitations/product.biblio.jsp?osti_id=6149134 Low-level waste shallow land burial source term waste form leaching model development for the BLT computer code, Sullivan, T.M. (Brookhaven National Lab., Upton, NY (USA)); Suen, C.J. (California State Univ., Fresno, CA (USA)), BNL-NUREG-45733; CONF-910270--8; 1991 Jan 01

URL: http://www.osti.gov/energycitations/product.biblio.jsp?osti_id=6754927 Low-level radioactive waste source term model development and testing: Topical report Sullivan, T.M.; Kempf, C.R.; Suen, C.J.; Mughabghab, S.M., NUREG/CR-5204;BNL-NUREG-52160; 1988 Aug 01

URL: http://www.osti.gov/energycitations/product.biblio.jsp?osti_id=6991608 Low-level waste shallow land burial source term container breach and waste form leaching model development, Sullivan, T.M.; Suen, C.J., BNL-NUREG-43926; CONF-900210--26; 1990 Jan 01

URL: http://www.osti.gov/energycitations/product.biblio.jsp?osti_id=6991615 BLT (Breach, Leach, and Transport): A source term computer code for low-level waste shallow land burial, Suen, C.J.; Sullivan, T.M., BNL-NUREG-43927; CONF-900210--27; 1990 Jan 01

URL: http://www.osti.gov/energycitations/product.biblio.jsp?osti_id=7233553
Benchmarking BLT: A computer code for LLW source term evaluation
Suen, C.J.; Hoode, S. (California State Univ., Fresno, CA (United States));Sullivan, T.M. (Brookhaven National Lab., Upton, NY (United States)), BNL-NUREG-47731;CONF-920307--88; 1992 Jan 01

URL: http://www.osti.gov/energycitations/product.biblio.jsp?osti_id=10165340
Benchmarking BLT: A computer code for LLW source term evaluation
Suen, C.J.; Hoode, S. [California State Univ., Fresno, CA (United States)]; Sullivan, T.M. [Brookhaven National Lab., Upton, NY (United States)], BNL-NUREG--47731; CONF-920307--88; 1992 Aug 01

URL: http://www.osti.gov/energycitations/product.biblio.jsp?osti_id=10168872 Sensitivity analysis and benchmarking of the BLT low-level waste source term code Suen, C.J.; Sullivan, T.M. [Brookhaven National Lab., Upton, NY (US)] NUREG/CR--5943; BNL-NUREG--52346; 1993 Jul 01