

CURRICULUM VITAE

PERSONAL INFORMATION

Name, Surname	Chiaki T. OGUCHI
Title	Doctor of Science (University of Tsukuba, Japan)
Position and affiliation	Associate Professor Graduate School of Science and Engineering, Saitama University
Address	255 Shimo-Okubo, Sakura-ku Saitama, 338-8570, Japan
Telephone	+81 48 858 3838
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E-mail	ogchiaki@mail.saitama-u.ac.jp
Nationality	Japanese
Place and date of birth	Jan 11, 1969, Yokohama, Japan
Work experience	June 2004 - Present: Associate Professor, Saitama University Jan 2002 - May 2004: JSPS/JST Postdoctoral Research Fellow, Japan International Research Center for Agricultural Science Apr 1999-Dec 2001: Research Associate, University of Tsukuba Nov 1997 - Mar 1999: JSPS Research Fellow, University of Tsukuba
Main activities and responsibilities	- Lecture and supervise to doctoral and master students of International Graduate Program on Civil and Environmental Engineering - Lecture and supervise to undergraduate students of Department of Civil and Environmental Engineering
Education and training	Apr 1993- Oct 1997: Doctoral Course Student, Institute of Geoscience, University of Tsukuba Apr 1991 - Mar 1993: Master Course Student, Institute of Geoscience, University of Tsukuba Apr 1987 - Mar 1991: Undergraduate Student, Geography Course, School of Arts and Literature, Meiji University
Main fields of research	Geomorphology, Physical Geography, Geoarchaeology, Conservation and restoration of Stone buildings, Mineralogy, Geochemistry, Geotechnology
Recent scientific activities	Research Interests are rock weathering and geomorphological processes. Outputs from these studies can be applied to various fields such as stone deterioration of cultural heritages, durability of concretes, natural hazards, radioactive waste disposal, etc. Collaboration works with GEGENAA, Reims-Champagne-Ardenne University (URCA), France, have been performed at Orval Abbey, Belgium. The new building of the abbey constructed in the beginning of 20 century is suffering from salt weathering, whereas the old building constructed at middle age is not. Several experiments such as durability tests and leaching tests were carried out using these building materials. Student exchanges were also done during the research activities. Another collaboration works on Egyptian Archaeological Site Projects were done with a colleague at Menoufiya University, Egypt, as a topic on "New Standards for Limestone and Mortars for Conservation of the Archaeological Sites. Bilateral research between Italy and Japan as well are undergoing titled in "Damage Assessment and Conservation of Underground space as valuable resources for human activities use in Italy and Japan".

Awards
2005: Great Women of the 21st Century (Geomorphology), American Biographical Institute (ABI)
2001-2004: JSPS/JST Postdoctoral Research Fellowship
1997-2000: JSPS Research Fellowship for Young Scientists
2000: Special Commendation for Research and Education, Alumni Association of the University of Tsukuba

Activities in Associations

European Geosciences Union (EGU)

Membership (2004-), Equality Diversity Inclusion Working Group member (2019-)

British Geomorphological Research Group

Membership (1994-)

Japan Geosciences Union (JpGU)

Membership (1994-), Gender Equality Committee (member: 2005-2014, vice chair: 2009-2012, chair: 2012-2014), Career Supporting Committee member (2009-2015), Diversity Promotion Committee (member: 2014-, vice chair: 2014-2016, chair: 2018-2020), Environment and Disaster Committee member (2016-), Director (2016-), Vice President (2020-)

The Association of Japanese Geographers (AJG)

Membership (1994-), General Committee member (Event Committee member (2004-2007), Disaster Committee member (2004-2016), Exchange Committee member (2019-)

The Clay Society of Japan (CSSJ)

Membership (2001-), Managing Committee member (2016-), Director (2018-), Executive Meeting Committee chair (2019)

Japanese Geomorphological Union (JGU)

Membership (1991-), Event Committee member (1994-2015), Director (2015-)

Japanese Geotechnical Society (JGS)

Membership (1991-), Representative (2018-2020), Historical Heritage Committee member (2015-2018)

Cultural Heritage International Cooperation Consortium in Japan

East Asia / West Asia Subcommittee member (2010-2018)

The Volcanological Society of Japan

Membership (1993-)

Speleological Society of Japan

Membership (2000-)

The Japanese Association for Arid Land Studies

Membership (2000-)

The Mining and Material Processing Institute in Japan

Membership (2009-)

The Japan Inter-Society Liaison Association Committee for Promoting Equal Participation of Men and Women in Science and Engineering (EPMEWSE)

Career Supporting Working Group member (2010-), Survey Working Group member (2013-), Request and Proposal Working Group member (2019-)

PUBRICATIONS

- 1) Kamh, G. M. E., Oguchi, C. T., El-Hassan, M. A., Thabet, W., Weathering Processes acting on Chalky Limestone composing Geo-heritage at The White Desert, Farafra Oasis, Western Desert, Egypt, *International Journal of Water Resources and Environmental Engineering*, 2020. (in press),
- 2) Germinario, L., Oguchi, C. T., Historical Man-made Caves in Japan: Vulnerability of rocks and cultural assets in the underground environment, in Siegesmund, S. & Middendorf, B. ed., *Monument Future, Decay and Conservation of Stone*, Proceedings of the 14th international congress on the deterioration and conservation of stone, vol I and II, Mitteldeutscher Verlag 2020. (in press)
- 3) Germinario L., Oguchi C.T., Tamura Y., Ahn S., Ogawa M. (2020). Taya Caves, a Buddhist marvel hidden in underground Japan: stone properties, deterioration, and environmental setting. *Heritage Science*, 8, 87. doi: 10.1186/s40494-020-00433-9
- 4) Oguchi I. C. T., Sakane, K., Tamura, Y., Non-destructive field measurement for investigation of deteriorated parts – case study at the Taya Cave, central Japan–, in Varriale, R. et al. eds., *Damage Assessment and Conservation of Underground Spaces as Valuable Resources for Human Activities in Italy and Japan*, 2020.
- 5) Tamura, Y., Oguchi, C. T., Hayakawa, Y. S., Ogata, K., Ogura, T., Morita, M., Multidisciplinary conservation activities and community development on the Yokohama City registered historic site – “Taya Cave” example report of collaboration with educational institutions, in Varriale, R. et al. eds., *Damage Assessment and Conservation of Underground Spaces as Valuable Resources for Human Activities in Italy and Japan*. 2020.
- 6) Hayakawa Y. S., Ogura, T., Tamura, Y., Oguchi, C. T., Shimizu, K., Three-dimensional point cloud data by terrestrial laser scanning for conservation of an artificial cave, in Varriale, R. et al. eds., *Damage Assessment and Conservation of Underground Spaces as Valuable Resources for Human Activities in Italy and Japan*. 2020.
- 7) Hossain, S., Ishiyama, T., Hachinohe, S., Oguchi, C. T., Leaching behavior of As, Pb, Ni, Fe, and Mn from subsurface marine and nonmarine depositional environment in central Kanto plain, Japan. *Geosciences*, vol. 9, pp. 435-457, 2019. <<https://doi.org/10.3390/geosciences9100435>>
- 8) Imam, H. MD., Oguchi, C. T., Wakatsuki, T., Ueda, M., Assessment of climate-induced degree of chemical weathering in some granite and granodiorite slopes of Japan, *Modeling Earth Systems and Environment*, vol. 5, pp. 1751–1767, 2019.
- 9) Rajib, M., Parveen, M. and Oguchi, C. T., A rapid technique for measuring oxidation-reduction potential for solid materials, *J. Sci. Technol. Environ. Inform.* Vol. 7, pp. 510-516, 2019. <<https://doi.org/10.18801/jstei.070119.53>>
- 10) Rajib, M., Oguchi, C. T., Hasan, S. M. M., In-situ oxidation effect on pore size distribution in investigating adsorption properties under various geochemical conditions, *Solid Earth Science*, vol. 4, pp. 113-124, 2019. <<https://doi.org/10.1016/j.sesci.2019.06.003>>
- 11) Imam, H. MD., Oguchi, C. T., Wakatsuki, T. and Ueda, M., Climatic influences on weathering degree of soil layer in the soil-slip scar on granitic slopes in Japan. *Transactions, Japanese Geomorphological Union*, vol. 30, pp. 325-348, 2018.
- 12) Oguchi, T., Hayakawa, Y., Oguchi, C.T., Quaternary Fluvial Environments and Palaeohydrology in Syria. In Y. Enzel & O. Bar-Yosef (Eds.), *Quaternary of Levant: Environments, Climate Change, and Humans* (pp. 417-422). Cambridge: Cambridge University Press. 2017, <doi:10.1017/9781316106754.048>
- 13) Udagedara, D. T., Oguchi, C. T. and Gunatilake, J. K., Combination of chemical indices and physical properties in the assessment of weathering grades of sillimanite-garnet gneiss in tropical environment. *Bulletin of Engineering Geology and the Environment*, vol. 76, pp. 145-157, 2017.
- 14) Rajib, M., Oguchi, C. T., Adsorption of ¹³³Cs and ⁸⁷Sr on pumice tuff: A comparative study between powder and intact solid phase. *Acta Geochim.* vol. 36, pp. 224–31, 2017. <doi: 10.1007/s11631-016-0133-3>
- 15) Udagedara, D. T., Oguchi, C. T. and Gunatilake, J. K., Evaluation of geomechanical and geochemical properties in weathered metamorphic rocks in tropical environment: a case study from Samanalawewa hydropower project, Sri Lanka, *Geosciences Journal*, vol. 21, pp. 441-452, 2017. <doi: <http://dx.doi.org/10.1007/s12303-016-00>>
- 16) Udagedara, D.T., Oguchi, C.T. and Gunatilake, J.K., Combination of chemical indices and physical properties in the assessment of weathering grades of sillimanite-garnet gneiss in tropical environment. *Bull. Eng. Geol. Environ.* February 2017, vol. 76, pp. 145–157, 2015. <doi: 10.1007/s10064-016-0878-2>
- 17) Rajib, M., MD. Moniruzzaman and Oguchi, C. T., Economic Minerals in Fluvial Bar Sediment of Jamuna River, Bangladesh: Geomorphic Inference for Prospecting Rare Earth Oxides. *Transactions, Japanese Geomorphological Union*, vol. 37, pp. 363-377, 2016.
- 18) Rajib, M., Kobayashi, T., Oguchi, C. T. and Sasaki, T., Oxidation of Solid Phase and Ionic Strength Effect to the Cesium Adsorption on Pumice Tuff. *Journal of Geoscience and Environment Protection*, vol. pp. 4-73, 2016. <doi:

10.4236/gep.2016.42008>

- 19) Hayakawa, Y. S., Oguchi, C. T., Ariga, N. and Aoki, H., Spatial Distribution of Changes in Rockwall Surface at Yoshimi-Hyakuana Cave, Central Japan, Revealed by Repeated Terrestrial Laser Scanning. *Procedia Earth and Planetary Science*, vol. 15, pp. 619–626, 2015. <doi: 10.1016/j.proeps.2015.08.114>
- 20) Rajib, M., Oguchi, C.T., Sasaki, T. and Kobayashi, T., Strontium dissolution effect on the adsorption experiment with rhyolitic pumice tuff. *Geochemical Journal*, vol. 49, pp. 539-548, 2015. <doi:10.2343/geochemj.2.0383>
- 22) Oguchi, C. T., 2015. Understanding Water-Rock Interactions. Research Media. International Innovation. 128p (106-107). 2015. <http://digimag.internationalinnovation.com/launch.aspx?eid=cbaaf66-1d9a-40df-bb95-7f1e0f917aaf>
- 23) Oguchi, C. T., Weathering rinds: formation processes and weathering rates. In: John F. Shroder (ed.) *Treatise on Geomorphology*, vol. 4, pp. 98-110. San Diego: Academic Press. 2013.
- 24) Kamh, G. M. E. and Oguchi, C. T., Modification of Damage Category Scale and Non-destructive Geotechnical Studies for Weathering Investigations of Oolitic Limestone at the El-Shatbi Greco-Roman Tombs in Egypt. *Restoration of Buildings and Monuments*. vol. 19, no.5, pp. 321–340, 2013. <doi: 10.1515/rbm-2013-6616>
- 25) Kamh, G. M. E., Ismael, B. and Oguchi, C. T., Pore Size Distribution and Wall Side Orientation Controlling Salt Susceptibility Index “SSI” and Weathering Rate of Stratified Pharaonic Rock Art. *Restoration of Buildings and Monuments*. *Bauinstandsetzen und Baudenkmalpflege*. vol. 19, no. 5, pp. 1–22, 2013. <doi: 10.1515/rbm-2013-6617 >
- 26) Kamh, G. M., Oguchi, C. T. and Watanabe, K., Factors Controlling Salt Susceptibility and Alteration Indices on Salt Weathering of Oolitic Limestone using Single Salt at Five Weathering Regimes, a case study. *Restoration of Buildings and Monuments "An International Journal"*, vol. 19, no. 6, pp. 1-24, 2013. <doi: 10.1515/rbm-2013-6625 >
- 27) Swe, Yu, and Oguchi, C.T., Is sheer thenardite attack impotent compared with cyclic conversion of thenardite–mirabilite mechanism in laboratory simulation tests? *Engineering Geology*, vol. 152, pp. 148-154, 2013. <doi:10.1016/j.enggeo.2009.05.007>
- 28) Oguchi, T., Hori, K., Watanuki, T., Oguchi, C.T., Komatsubara, J., Hayakawa, Y. and Jaiswal, M., Fluvial surfaces along the Khabur River near Tell Seker alAheimar and their palaeoenvironmental implications. In: Nishiaki, Y., Kashima, K. and Verhoeven, M. (eds.) *Neolithic Archaeology in the Khabur Valley, Upper Mesopotamia and Beyond*. ex oriente e.V., Berlin, 39-50, 2013.
- 29) Shehata, A. A., Kamh, G. M. E., Oguchi, C.T., Rabea, R. A. and El-Sayed, S. S. M.: Geological and geotechnical parameters controlling wall paints detachment at Selected XXVII Dynasty tombs, Bahariya Oasis, Egypt. *International Journal of Modern Engineering Research (IJMER)*, vol. 2, pp. 4166–4179. 2012.
- 30) Kamh, G. M. E. and Oguchi, C. T., Alteration index, normalized weight evolution and geomorphic changes of dimensional limestone on artificial salt weathering. *Restoration of Buildings and Monuments*, vol. 18, pp. 381–396. 2012.
- 31) Song, W., Ogawa, N., Oguchi, C.T., Hatta, T. and Matsukura, Y., Laboratory experiments on bacterial weathering of granite and its constituent minerals. *Géomorphologie: relief, processus, environnement*, vol. 7, pp. 327-336, 2011.
- 32) Thidar Aye and Oguchi, C. T., Resistance of plain and blended cement mortars exposed to severe sulfate attacks, *Construction and Building Materials*, vol. 25, pp. 2988-2996, 2011.
- 33) Thomachot-Schneider, C., Gommeaux, M., Fronteau, G., Oguchi, C.T., Eyssautier, S. and Kartheuser, B.: A comparison of the properties and salt weathering susceptibility of natural and reconstituted stones of the Orval Abbey (Belgium), *Environmental Earth Science*, vol. 63, pp. 1447-1461, 2011.
- 34) Fujimaki, T., Oguchi, C. T., Osawa, Y., Thomachot-Schneider, C., Gommeaux, M., Eyssautier, S. and Fronteau, G.: Salt weathering susceptibility of natural limestone and reconstituted stone used in the Orval Abbey, Belgium. *Proceeding of International Conference on Salt Weathering and Building Stone Sculptures*. Limassol, Cyprus, pp.161-168, 2011.
- 35) Pham, T. P. C., Doldersum, T. and Oguchi, C. T., The sensitivities of the parameters in the WetSpa Extension model. *Proceeding of International Conference on Design and Modeling in Science, Education, and Technology 2011 (DemSET 2011)*, Orland, USA, pp. 339-344, 2011.
- 36) Oguchi, C.T. and Yuasa, H., Simultaneous wetting/drying, freeze/thaw and salt crystallization experiments of three types of Oya tuff. *Natural Stone Resources for Historical Monuments. Geological Society of London Special Publication*, vol. 333, pp. 59-72, 2010.
- 37) Swe Yu and Oguchi, C.T., Is sodium sulphate invariably effective in destroying any type of rock? *Natural Stone Resources for Historical Monuments. Geological Society of London Special Publication*, vol. 333, pp.43-58, 2010.
- 38) Thidar Aye, Oguchi C.T. and Takaya, Y.: Evaluation of sulfate resistance of Portland and high alumina cement

- mortars using hardness test. *Construction and Building Materials*, vol. 24, pp.1020-1026, 2010.
- 39) Swe Yu and Oguchi, C.T., Role of pore size distribution in salt uptake, damage, and predicting salt susceptibility of eight types of Japanese building stones. *Engineering Geology*, vol.115, pp. 226--236, 2010.
 - 40) Oguchi, C. T., Takaya, Y., Yamazaki, M., Ohnishi, R., Thidar Aye and Hatta T., High acidic sulphate salt production on the cave wall in the Yoshimi Hyaku-Ana Historic Site, central Japan. *Proceedings of the XIX Carpathian Balkan Geological Association (CBGA) Congress*, Thessaloniki, Greece, Special Volume 100, pp. 413-419, 2010.
 - 41) Oguchi T. and Oguchi C. T., Mt. Fuji: The beauty of a symmetric stratovolcano. In Piotr Migoń ed., *Geomorphological Landscapes of the World*, Springer, Dordrecht, 371p, 2010.
 - 42) Swe Yu and Oguchi, C.T., Complex relationships between salt type and rock properties in a durability experiment of multiple salt-rock treatments. *Earth Surface Processes and Landforms*, vol. 34, pp. 2096-2110, 2009.
 - 43) Hachinohe, S, Ishiyama, T. Sasaka K., Ishihara, T., Sugai, T. Kumari, K. G. I. D. and Oguchi C. T., Development of geo-database system with the perspective of environmental scientific use and its application. *Proceedings of Geo-Informatics and Zoning for Hazard Mapping (GIZ2009)*, Kyoto, Japan, pp. 152-157, 2009.
 - 44) Oguchi, C. T., Sekiguchi, A., Thidar A., Takaya, Y. and Hatta, T., Strength reduction and surface alteration of mortars during Wetting/drying experiment using seawater and sulfate solution. *Proceedings of International Symposium on engineering, Energy, and Environment*. Thailand, pp. 17-21, 2009.
 - 45) Osawa, Y. and Oguchi, C. T., Role of micropores on freeze-thaw weathering of building stones. *Proceedings of International Symposium on engineering, Energy, and Environment*. Thailand, pp. 117-121, 2009.
 - 46) Oguchi, T., Hori, K. and Oguchi, C. T., Paleohydrological implications of late Quaternary fluvial deposits in and around archaeological sites in Syria. *Geomorphology*, vol. 101, pp. 33-43, 2008.
 - 47) Oguchi, C. T., Damdimdorji, D. and Takaya, Y., Coal characterization and the predicted environmental influence due to mining on Tavantolgoi Coal Mine in Mongolia, *Proceedings of International Symposium on Environmental Management: Hazardous*. Thailand, pp. 32-33, 2008.
 - 48) Takaya, Y., Aoki, T., Nakayama, T. and Oguchi, C. T., Experimental study on surface alteration of limestone and mortar attacked by seawater, *Proceedings of International Symposium on Environmental Management: Hazardous*. Thailand, pp. 126-127, 2008.
 - 49) Matsukura, Y., Hattanji, T., Oguchi, C. T. and Hirose, T., Ten year measurements of weathering rates of rock tablets on a forested hillslope in a humid temperate region, Japan. *Zeitschrift für Geomorphologie. N. F., Supplement Band*, vol. 51, pp. 27-40, 2007.
 - 50) Matsukura, Y., Hattanji, T., Oguchi, C. T. and Hirose, T., Rates of chemical weathering of porous rhyolites: ten-year measurements using a weight-loss method. *Tsukuba Geoenvironmental Sciences*, vol. 2, pp. 3-8, 2006.
 - 51) Song, W., Ogawa, N., Oguchi, C. T., Hatta, T. and Matsukura, Y., Effect of *Bacillus subtilis* on granite weathering: a laboratory experiment. *Catena*, vol. 70, pp. 275-281, 2007. 10) Oguchi, C. T., Matsukura, Y. and Kuchitsu, N., Environmental and seasonal influences on the spatial distribution of salt efflorescence and weathering on brick kiln walls. *Transactions, Japanese Geomorphological Union*, vol. 23, pp. 335-348, 2002.
 - 52) Oguchi, C. T., Matsukura, Y., Shimada, H. and Kuchitsu, N., Application of weathering susceptibility index to salt damage on a brick monument. in Fort, A. B., Gomez, H. and Vazquez, C (eds), *Heritage, Weathering and Conservation*. Taylor & Francis Group, London, pp. 217-227, 2006.
 - 53) Oguchi, T. and Oguchi, C. T., Sedimentological analysis of Tell al-'ABR deposits, Syria. in Hammade, H. & Yamazaki, Y. (eds.), Tell al-' Abr, Chapter 14. *Louvain-Paris-Dudley (MA)*. pp. 443-453, 2006.
 - 54) Matsuoka, N. Thomachot, C. Oguchi C. T., Hatta, T., Abe, M. and Matsuzaki, H., Quaternary bedrock erosion and landscape evolution in the Sør Rondane Mountains, East Antarctica: reevaluating rates and processes. *Geomorphology*, vol. 81, pp. 408-420, 2006.
 - 55) Oguchi, C. T., A porosity-related diffusion model of weathering-rind development. *Catena*, vol. 58, pp. 65-75, 2004.
 - 56) Matsukura, Y., Oguchi, C. T. and Kuchitsu, N., Salt damage to brick kiln walls in Japan: spatial and seasonal variation of efflorescence and moisture content. *Bulletin of Engineering Geology and the Environment*, vol. 63, pp.167-176, 2004.
 - 57) Oguchi, T. and Oguchi, C. T., Late Quaternary rapid talus dissection and debris flow deposition on an alluvial fan in Syria. *Catena*, vol. 55. pp. 125-140, 2004.
 - 58) Matsukura, Y., Hashizume, K. and Oguchi, C. T., Effect of microstructure and weathering on the strength anisotropy of porous rhyolite. *Engineering Geology*, vol. 63, pp. 39-47, 2002.
 - 59) Oguchi, C. T., Formation of weathering rinds on andesite. *Earth Surface Processes and Landforms*, vol. 26, pp. 847-858, 2001.

- 60) Oguchi, C. T., Noda, T. and Matsuoka, N., Weathering rind characteristics of blocky deposits in a deglaciated cirque on Mt. Yakushi, the Northern Japanese Alps. *Annual Report of the Institute of Geoscience, the University of Tsukuba*, no. 27, pp. 17-23, 2001.
- 61) Matsukura, Y., Hirose, T. and Oguchi, C. T., Rates of chemical weathering of porous rhyolites: 5-year measurements using the weight-loss method. *Catena*, vol. 43, pp. 341-347, 2001.
- 62) Oguchi, C. T., Rates of rock property changes with weathering: andesite gravel in fluvial terrace deposits in Nasuno-ga-hara, Japan. *Science Reports of the Institute of Geoscience, University of Tsukuba, Section A*, vol. 21, pp. 59-88, 2000.
- 63) Oguchi, C. T. and Matsukura, Y., Spatial distribution of salt efflorescence on brick walls in the Shimoren Kiln, central Japan. *Annual Report of the Institute of Geoscience, the University of Tsukuba*, no. 26, pp. 25-29, 2000.
- 64) Oguchi, C. T. and Matsukura, Y., Effect of porosity on the increase in weathering-rind thicknesses of andesite gravel. *Engineering Geology*, vol. 55, pp. 77-89, 1999.
- 65) Oguchi, C. T., Hatta, T. and Matsukura, Y., Weathering rates over 40,000 years based on changes in rock properties of porous rhyolite. *Physics and Chemistry of the Earth, Part A*, vol. 24, pp. 861-870, 1999.
- 66) Oguchi, C. T. and Matsukura, Y., Microstructural influence on strength reduction of porous rhyolite during weathering. *Zeitschrift für Geomorphologie. N. F., Supplement Band*, vol. 119, pp. 91-103, 1999.
- 67) Matsukura, Y., Waragai, T. and Oguchi, C. T., Estimation of growth rates of coastal tafoni in tuff at Oku-Matsushima. *Annual Report of the Institute of Geoscience, the University of Tsukuba*, no. 25, pp. 19-22, 1999.
- 68) Matsukura, Y., and Oguchi, C. T., Chemical dissolution and hardness reduction of weathering rinds on sanukitoid-andesite blocks. *Annual Report of the Institute of Geoscience, the University of Tsukuba*, no. 25, pp. 23-26, 1999.
- 69) Oguchi, T. and Oguchi, C. T., Mid-Holocene floods of the Syrian Euphrates inferred from "Tell" sediments. *In: Benito, G., Baker, V.R. and Gregory, K.J. (eds.) Palaeohydrology and Environmental Change*. John Wiley and Sons, Chichester, pp. 307-315, 1998.
- 70) Oguchi, C. T., Isobe, H., Komuro, K. and Matsukura, Y., Colour measurements using a visible microspectrometer of weathering rinds on andesite blocks. *Annual Report of the Institute of Geoscience, the University of Tsukuba*, no. 21, pp. 9-13, 1995.
- 71) Matsukura, Y., Oguchi, C. T. and Hatta, T., Preliminary study on Vickers microhardness of weathering rinds. *Annual Report of the Institute of Geoscience, the University of Tsukuba*, no. 20, pp. 15-17, 1994.

Main invited presentations

- 1) Oguchi, C. T., Weathering of mud and soft rock materials at some archaeological sites, International symposium of Advances in Geoarchaeological Approaches to Ancient Mesopotamia, Saitama, 14 November, 2015. (Presentation: 2015. 11. 14.)
- 2) Oguchi, C. T., Kodama, S., Rajib M. and Udagedara, D. T. (2016): Salt efflorescence due to water-rock interaction on the surface of tuff cave in the Yoshimi-Hyakuana Historic Site, central Japan, Geophysical Research Abstracts, vol. 18, EGU2016-4601-3, European Geosciences Union 2016. Vienna, Austria, 17 April – 22 April 2016. (Presentation: 2016. 4. 20.)
- 3) Oguchi, C.T. and the Committee for Diversity management and Talent Pool, JpGU, Examples of countermeasures for gender equality issues in the field of geoscience and science and engineering in Japan, Geophysical Research Abstracts, vol. 20, EGU2018-18807, European Geosciences Union 2018. Vienna, Austria, 8 April – 13 April 2018. (Presentation: 2018. 4. 11.)
- 4) Oguchi, C.T., Current state and problems of gender equality in JpGU and other STEM fields in Japan found from the questionnaire surveys, Geophysical Research Abstracts, vol. 20, EGU2018-18807, European Geosciences Union 2019. Vienna, Austria, 7 April – 12 April 2019. (Presentation: 2019. 4. 10.)