CV Georg Steinhauser

Prof. Dr. Georg Steinhauser is alumnus of University of Vienna (MSc in chemistry 2003) and Vienna University of Technology (PhD in radiochemistry 2005). After ten years of research using the Atominstitut's TRIGA Mk II reactor, he was hired in 2013 by Colorado State University's Department of Environmental and Radiological Health Sciences for a tenure track faculty position (Assistant Professor in radiochemistry). Since 2013, he is member of the Radiation Protection Advisory Board of the Austrian Federal Minstry of Health (Strahlenschutzbeirat). In October 2015, he was hired by Leibniz University Hannover (Institute of Radioecology and Radiation Protection) as a Professor for physical radioecology. His main research focus is environmental radioactivity in Chernobyl and Fukushima as well as environmental nuclear forensics. Steinhauser has (co-)authored more than 90 publications. He is a member of the GDCh (board member of AK ARH), GÖCH, DPG, ASER, and Executive Officer of the ANS Biology and Medicine Division. Since 2016, he is editor of the Springer journal Environmental Science and Pollution Research.

List of awards:

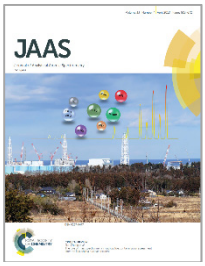
- *Stockmeyer Wissenschaftspreis 2016*, (for publication Merz et al., 2015), Germany
- *Kardinal Innitzer Award* (2014); Kardinal Innitzer Studienfonds, (for the Habilitation Thesis), Austria
- *Theodor Körner Award* (2011); "Carl Auer von Welsbach – Entdecker der Neutronen-aktivierung?" Theodor Körner Fonds, Austria
- *Bader-Award for the History of Science* (2010); "Carl Auer von Welsbach – Discoverer of neutron activation?" Austrian Academy of Sciences
- Science communication competition *FameLab 2008*: Auditory's Favorite Award and 3rd rank of the jury, Austria
- *WissenschaftlerInnen schreiben Presseaussendungen 2008* ('Scientists write Press Releases 2008'): 3rd rank, Austria
- *Innovation Lab 2003*: for the Master Thesis (3rd rank), Austria
- *Genius 2001*: Special award for the best student's project, Austria
- *Max-Perutz-Special-Award 1997*, GÖCH, for the best biochemical high school graduation paper, Austria

Key publications:

J.M. Welch, D. Müller, C. Knoll, M. Wilkovitsch, G. Giester, J. Ofner, B. Lendl, P. Weinberger, G. Steinhauser*. Picomolar traces of Am^{III} introduce drastic changes in the structural chemistry of Tb^{III}: a break in the "gadolinium break". *Angewandte Chemie International Edition*, 56 (2017) 13264-13269.

D. Müller, C. Knoll, A. Herrmann, J.M. Welch, W. Artner, J. Ofner, B. Lendl, G. Giester, P. Weinberger, G. Steinhauser*. Azobis[tetrazolide]-Carbonates of the Lanthanides – Breaking the Gadolinium Break. *European Journal of Inorganic Chemistry* 2018/19 (2018) 1969-1975.

W. Bu, Y. Ni, G. Steinhauser, W. Zheng, J. Zheng*, N. Furuka. The role of mass spectrometry for radioactive contamination assessment after the Fukushima nuclear accident. *Journal of Analytical Atomic Spectrometry* 33 (2018) 519-546



G. Steinhauser*, A. Koizumi. Fukushima – fünf Jahre danach. *Physik Journal* 15 (2016) 39-43.

G. Steinhauser, T. Niisoe, K.H. Harada, K. Shozugawa, S. Schneider, H.-A. Synal, C. Walther, M. Christl, K. Nanba, H. Ishikawa, A. Koizumi*. Post-accident sporadic releases of airborne radionuclides from the Fukushima Daiichi nuclear power plant site. *Environmental Science & Technology* 49 (2015) 14028-14035.

B.L. Rosenberg, K. Shozugawa, G. Steinhauser*. Rapid detection of fuel release in a nuclear accident: a method for preconcentration and isolation of reactor-borne ^{239}Np using ion-specific extraction chromatography. *Analytical Chemistry* 87 (2015) 8651-8656.

S. Merz, K. Shozugawa, G. Steinhauser*. Analysis of Japanese radionuclide monitoring data of food before and after the Fukushima nuclear accident. *Environmental Science & Technology*, 49 (2015) 2875-2885.

G. Steinhauser*. Fukushima's forgotten radionuclides: A review of the understudied radioactive emissions. *Environmental Science & Technology* 48 (2014) 4649-4663.

G. Steinhauser*, A. Brandl, T.E. Johnson. Comparison of the Chernobyl and Fukushima nuclear accidents: A review of the environmental impacts. *Science of the Total Environment*, 470-471 (2014) 800-817.

G. Steinhauser, K. Buchtela (2012), *Gas Ionization Detectors*, in: M. F. L'Annunziata (ed.), Handbook of Radioactivity Analysis, Elsevier/Academic Press, 3rd ed., San Diego, pp. 191-231.

O. Masson*, A. Baeza, J. Bieringer, K. Brudecki, S. Bucci, M. Cappai, F.P. Carvalho, O. Connan, C. Cosma, A. Dalheimer, D. Didier, G. Depuydt, L.E. De Geer, A. De Vismes, L. Gini, F. Groppi, K. Gudnason, R. Gurriaran, D. Hainz, Ó. Halldórsson, D. Hammond, O. Hanley, K. Holey, Zs. Homoki, A. Ioannidou, K. Isajenko, M. Jankovic, C. Katzlberger, M. Kettunen, R. Kierepko, R. Kontro, P.J.M. Kwakman, M. Lecomte, L. Leon Vintro, A.-P. Leppänen, B. Lind, G. Lujaniene, P. Mc Ginnity, C. Mc Mahon, H. Malá, S. Manenti, M. Manolopoulou, A. Mattila, A. Mauring, J.W. Mietelski, B. Møller, S.P. Nielsen, J. Nikolic, R.M.W. Overwater, S. E. Pálsson, C. Papastefanou, I. Penev, M.K. Pham, P.P. Povinec, H. Ramebäck, M.C. Reis, W. Ringer, A. Rodriguez, P. Rulík, P.R.J. Saey, V. Samsonov, C. Schlosser, G. Sgorbati, B. V. Silobritiene, C. Söderström, R. Sogni, L. Solier, M. Sonck, G. Steinhauser, T. Steinkopff, P. Steinmann, S. Stoulos, I. Sýkora, D. Todorovic, N. Tooloutalaie, L. Tositti, J. Tschiersch, A. Ugron, E. Vagena, A. Vargas, H. Wershofen, O. Zhukova. Tracking of Airborne Radionuclides from the Damaged Fukushima Dai-Ichi Nuclear Reactors by European Networks. *Environmental Science & Technology* 45 (2011) 7670-7677.

G. Steinhauser, T.M. Klapötke*. 'Green' Pyrotechnics – a Chemists' Challenge. *Angewandte Chemie International Edition* 47 (2008) 3330-3347.