

Activity Report 2015
Task Group on Isotopes in Geosciences

The Task Group has achieved two important milestones in 2015. The evaluation and recommendation of the decay constants and half-lives of geologically relevant nuclides has resulted in two publications. Both papers that had been submitted in the past years have been at last published by the most respected international journal for isotope geochemistry, *Geochimica et Cosmochimica Acta* (Elsevier).

The first Task Group recommendation on half-lives was published in September 2015:

Villa I.M., De Bièvre P., Holden N.E., Renne P.R., 2015. IUPAC-IUGS recommendation on the half life of ^{87}Rb . *Geochimica et Cosmochimica Acta*, 164, 382–385. doi: 10.1016/j.gca.2015.05.025

The second paper by the Task Group was published online in November 2015:

Villa I.M., Bonardi M.L., De Bièvre P., Holden N.E., Renne P.R., 2016. IUPAC-IUGS status report on the half-lives of ^{238}U , ^{235}U and ^{234}U . *Geochimica et Cosmochimica Acta*, 172, 387-392. doi: 10.1016/j.gca.2015.10.011

In addition to this completed work, the Task Group has continued both the re-definition of the year (following a preliminary report by the Bureau International des Poids et Mesures, BIPM) and the evaluation of other nuclides, ^{40}K and ^{147}Sm . Further progress is expected for 2016.

The expenditures for this year were, in US \$:

trip to Milano by Prof. Villa (august), meeting with Task Group member Prof. Bonardi: 150 \$

trip to Berkeley by Villa (december), meeting with Task Group member Prof. Renne: 1250 \$

intercontinental calls to USA from home telephone Villa: 50 \$

a planned trip to Europe by Prof. Renne (meeting with Task Group members Prof DeBièvre and Villa) was postponed to 2016, ca. 1500 \$

a planned trip to Paris by Villa (meeting with BIPM members) was also postponed to 2016, ca. 300 \$

Thus, the allocation for 2015 has not been completely used up.