

Nomination Form for the Election of Officers and Executive Committee

30th CODATA General Assembly, Denver, CO., USA, 11 September 2014

Nomination Submitted by	Päivi Tikka
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Representing	The Council of Finnish Academies
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Name of Candidate	Prof. Hannu Koskinen
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Affiliation	University of Helsinki, Department of Physics
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Nationality	Finnish
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Nominated for	<i>Please Tick</i>
Secretary-General	
Treasurer	
Ordinary Member Executive Committee	x

Scientific Discipline(s)	Physics, Space Research
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Previous positions held in CODATA	Dates

Please provide a short statement of interest in the role. Please consider in particular what the candidate would bring to the position of CODATA Officer or Ordinary Member of the Executive Committee, and how would they contribute to CODATA's mission and its strategic objectives and activities, as articulated in the updated [CODATA Strategic Plan, 2013-18: 'Exploiting the Data Revolution'](#)? What scientific achievements and leadership in data science and data management issues has the candidate shown which fit them for the role in question? **One Page. Please also attach a short CV of the proposed Candidate.**

Statement of the candidate: The explosion of the data volumes is a key challenge in today's and future scientific research practically in all fields of research. This requires clear and efficient data policies and practices and significant intellectual investments at the frontiers of data science. The first two priorities in the CODATA strategy must not be seen as separate issues, as data management and distribution are useless without novel methods in dealing with data and, vice versa, the grand scientific challenges cannot be met without access the best data sets. The third priority, to mobilize the data capacity to low and medium income countries is of utmost importance and urgent to deal with the major societal grand challenges (e.g. climate change, megacities, etc.) they are facing. A central issue in all these segments is open data and how the openness and strict requirements of data quality can be fit together.

Prof. Koskinen is the Head of the Department of Physics of the University of Helsinki (UH/PHYS). It is a large physics department (about 300 employees, 35 professors) deeply involved in CODATA-related research in elementary particle physics (in collaboration with Helsinki Institute of Physics that responsible for the Finnish CERN-activities), in space sciences (ESA and ESO activities), in atmospheric research and climate change (in collaboration with the Finnish Meteorological Institute) as well as in materials research. Being himself a space scientist Prof. Koskinen has personally witnessed the evolution from the rather modest data volumes in the 1980s to the explosion of present-day data sets, e.g., in the ESA missions Planck and the upcoming EUCLID. UH/PHYS had a key role in the Planck cosmic microwave background map-making and has similar responsibilities in the EUCLID Science Ground Segment. Prof. Koskinen is currently a member of the EUCLID Steering Committee in this particular role.

Prof. Koskinen has a long-time experience in national committees of ICSU-related organizations COSPAR, IUGG and URSI, having served 12 years (2000 – 2011) as the Chairman of the COSPAR National Committee and the Finnish COSPAR Council Delegate. Furthermore, he has wide experience in various committees of ESA where big data issues, including data policy issues.