



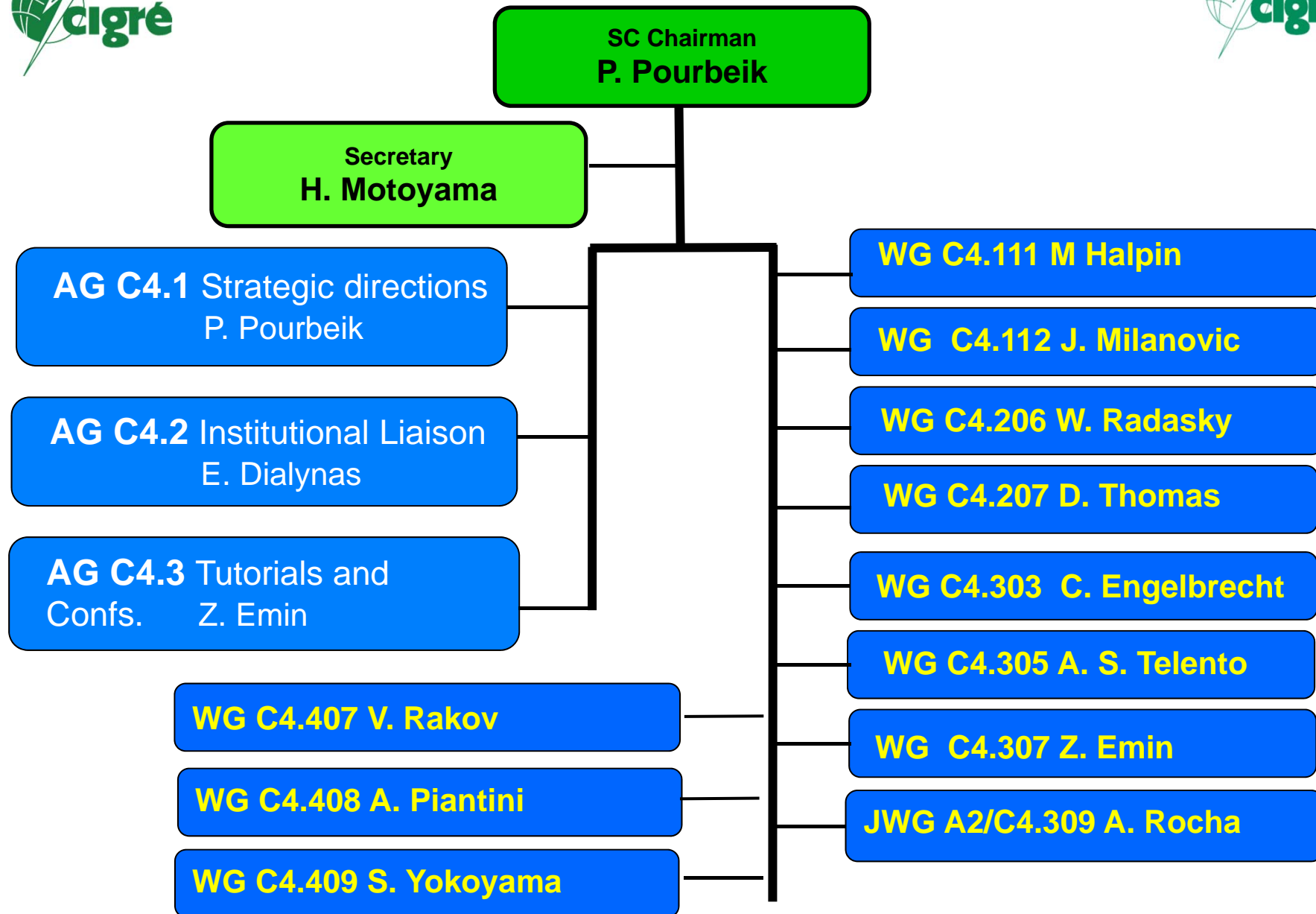
# SC C4 System Technical Performance



The mission of Study Committee C4 is as follows: “SC C4 deals with methods and tools for analysis related to power systems, with particular reference to dynamic and transient conditions and to the interaction between the power system and its apparatus/sub-systems, between the power system and external causes of stress and between the power system and other installations. Specific issues related to the design and manufacturing of components and apparatus are not in the scopes of SC C4, as well as those specifically related to planning and operation and control, apart from those cases in which component/apparatus/subsystem behaviour depends on, or significantly interacts with, the performance of the nearby power system. The fields on which the activity is carried out are: Power Quality, Electromagnetic Compatibility (EMC), Insulation co-ordination, Lightning, Advanced tools for the analysis of power system performance, Power systems dynamic performance models and analysis.”

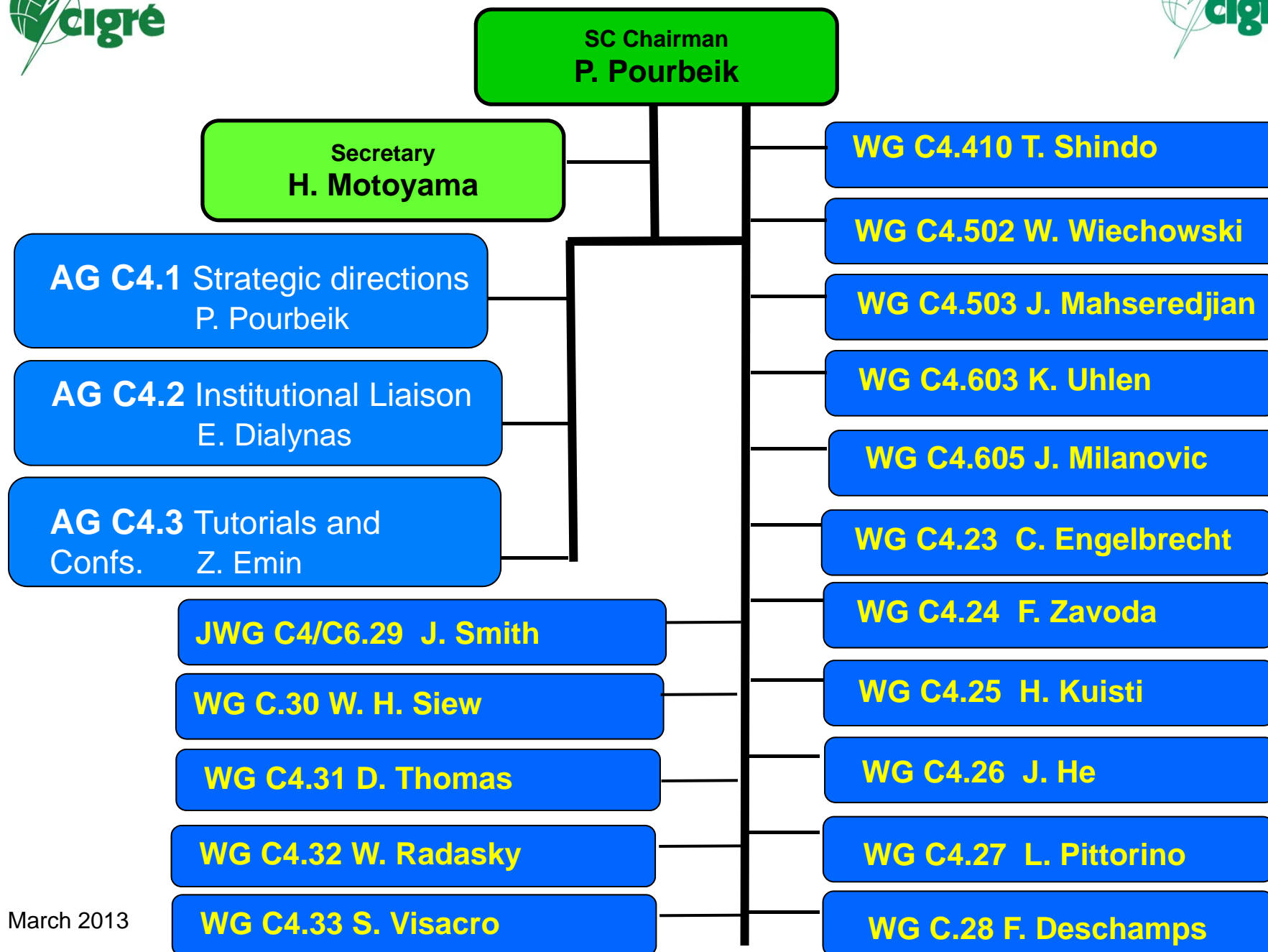


# SC C4 Organisation – part 1





# SC C4 Organisation – part 2

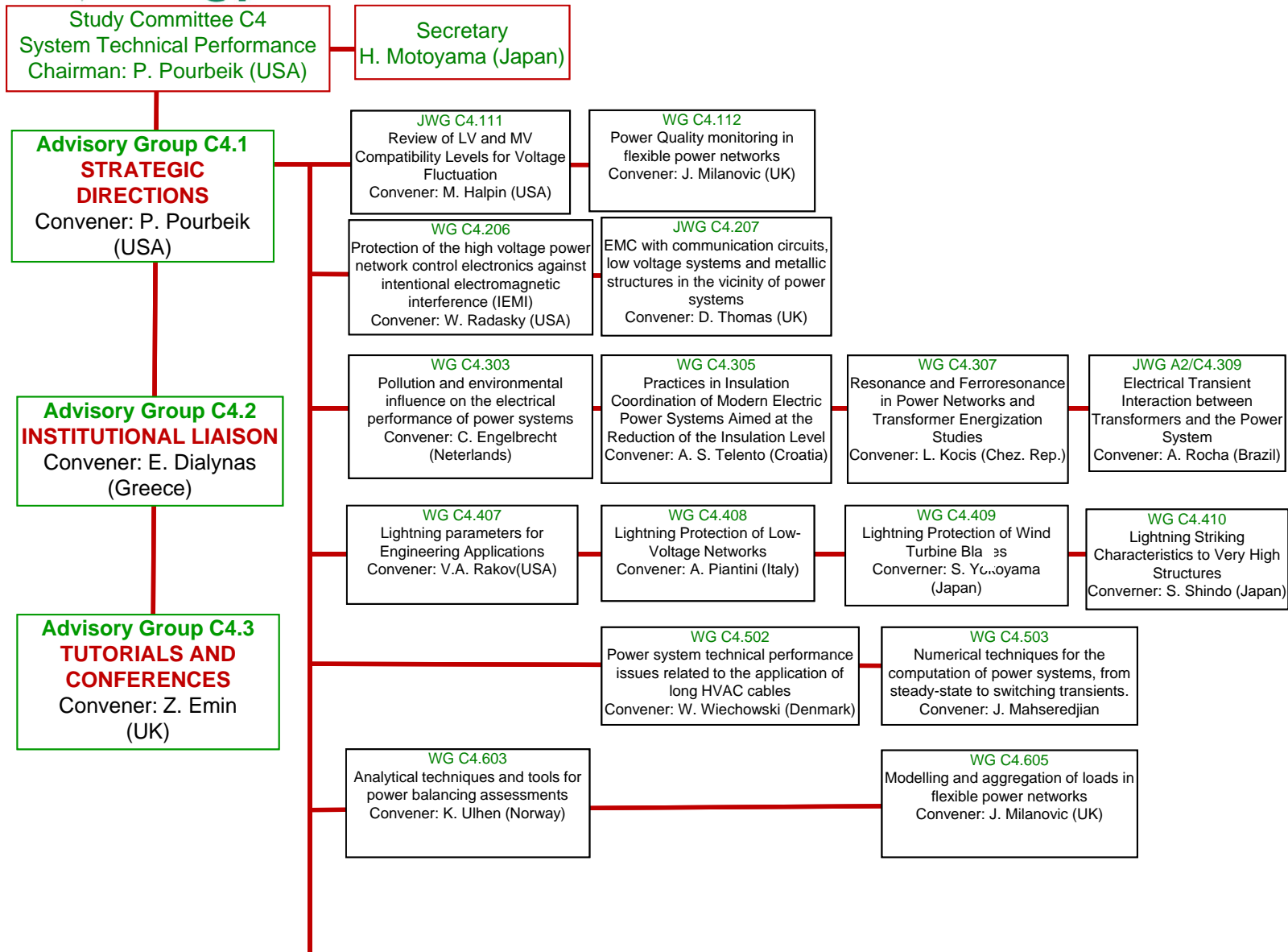




# Present WG denominations within SC C4

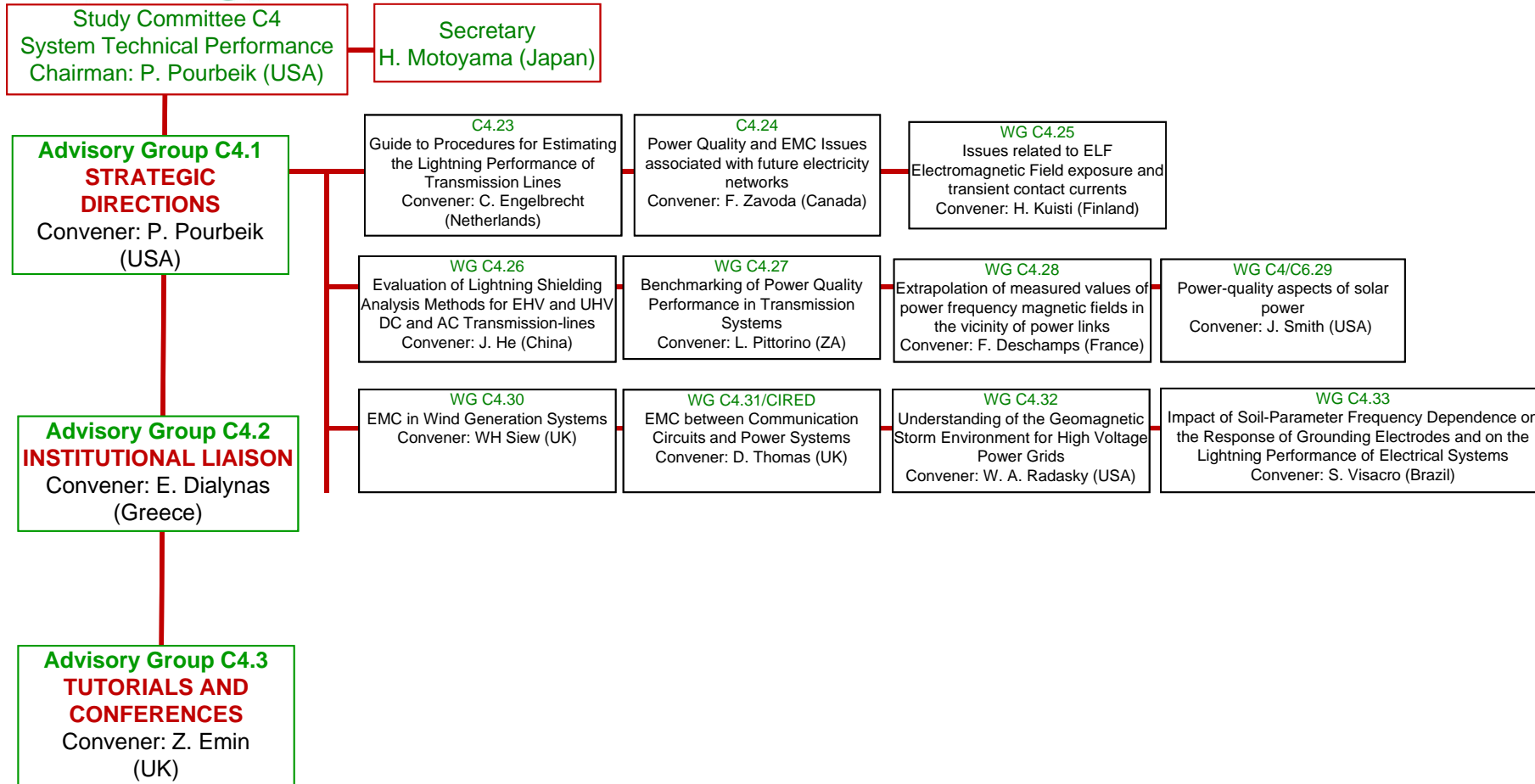
## - Part 1 -

March 2013





# Present WG denominations within SC C4 - Part 2 -





# Working Schedule of WGs

Type	Number	Convener	Title	Created	Scheduled Disbanding
WG	C4.111	M. Halpin	Review of LV and MV Compatibility Levels for Voltage Fluctuation	2010	2013
WG	C4.112	J. Milanovic	Power Quality monitoring in flexible power networks	2010	2014
WG	C4.206	W. Radasky	Protection of the high voltage power network control electronics against intentional electromagnetic interference (IEMI)	2008	2011
WG	C4.207	D. Thomas	EMC with communication circuits, low voltage systems and metallic structures in the vicinity of power systems	2009	2012
WG	C4.303	C. Engelbrecht	Pollution and environmental influence on the electrical performance of power systems	2005	2009
WG	C4.305	A. S. Telento	Practices in Insulation Coordination of Modern Electric Power Systems Aimed at the Reduction of the Insulation Level	2009	2011
WG	C4.307	Z. Emin	Resonance and Ferroresonance in Power Networks and Transformer Energization Studies	2009	2011
JWG	A2/C4.309	A. Rocha	Electrical Transient Interaction between Transformers and the Power System	2008	2012
WG	C4.407	V. Rakov	Lightning Parameters for Engineering Applications	2008	2011
WG	C4.408	A. Piantini	Lightning Protection of Low-Voltage Networks	2009	2011
WG	C4.409	S. Yokoyama	Lightning Protection of Wind Turbine Blades	2008	2012
WG	C4.410	T. Shindo	Lightning Striking Characteristics to Very High Structures	2010	2013
WG	C4.502	W. Wiechowski	Power system technical performance issues related to the application of long HVAC cables	2009	2012
WG	C4.503	J. Mahseredjian	Numerical techniques for the computation of power systems, from steady-state to switching transients	2010	2013
WG	C4.603	K. Uhlen	Analytical Techniques and Tools for Power Balancing Assessments	2008	2011
WG	C4.605	J. Milanovic	Modelling and aggregation of loads in flexible power networks	2009	2013
WG	C4.23	C. Engelbrecht	GUIDE TO PROCEDURES FOR ESTIMATING THE LIGHTNING PERFORMANCE OF TRANSMISSION LINES	2012	2015
WG	C4.24	F. Zavoda	Power Quality and EMC Issues associated with future electricity networks	2013	2016
WG	C4.25	H. Kuisti	Issues related to ELF Electromagnetic Field exposure and transient contact currents	2011	2014
WG	C4.26	J. He	Evaluation of Lightning Shielding Analysis Methods for EHV and UHV DC and AC Transmission-lines	2012	2014
WG	C4.27	L. Pittorino	BENCHMARKING OF POWER QUALITY PERFORMANCE IN TRANSMISSION SYSTEMS	2012	2014
WG	C4.28	F. Deschamps	Extrapolation of measured values of power frequency magnetic fields in the vicinity of power links	2012	2015
JWG	C4/C6.29	J. Smith	Power Quality Aspects of Solar Power	2012	2015
WG	C4.30	W. H. Siew	EMC in Wind Generation Systems	2013	2015
WG	C4.31	D. Thomas	EMC between communication circuits and power systems	2012	2016
WG	C4.32	W. A. Radasky	Understanding of the geomagnetic storm environment for high voltage power grids	2013	2015
WG	C4.33	S. Visacro	Impact of Soil-Parameter Frequency Dependence on the Response of Grounding Electrodes and on the Lightning Performance of Electrical Systems	2013	2016