<table>
<thead>
<tr>
<th>Name</th>
<th>Date of Election</th>
<th>Citation</th>
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<tbody>
<tr>
<td>Abdalla, Michael D.</td>
<td>July 7, 2010</td>
<td>For the development of high power hyperband and mesoband sources.</td>
</tr>
<tr>
<td>Agee, Forrest Jack</td>
<td>July 13, 2016</td>
<td>For contributions to protection from EMP environments and the development of HPM sources.</td>
</tr>
<tr>
<td>Antinone, Robert J.</td>
<td>June 5, 2002</td>
<td>For the development of HPRF assessment and hardening techniques.</td>
</tr>
<tr>
<td>Arnesen, Odd Harry</td>
<td>July 13, 2016</td>
<td>For contributions to the protection of critical technical infrastructures against Intentional EMI threats.</td>
</tr>
<tr>
<td>Aurand, John</td>
<td>July 23, 2008</td>
<td>For contributions to high-precision measurements in high-power electromagnetics.</td>
</tr>
<tr>
<td>Bäckström, Mats</td>
<td>June 5, 2002</td>
<td>For development of HPM test techniques and facilities.</td>
</tr>
<tr>
<td>Baker, George H.</td>
<td>July 22, 1992</td>
<td>For contributions to EMP generation and hardening technology, for development of standards and specifications, and management of R&amp;D programs.</td>
</tr>
<tr>
<td>Barnes, Paul R. (Randy)</td>
<td>July 22, 1992</td>
<td>For contributions to EMP analysis and development of the test and protection methods for commercial power systems.</td>
</tr>
<tr>
<td>Benford, James N.</td>
<td>June 18, 1998</td>
<td>For development of HPM sources.</td>
</tr>
<tr>
<td>Bhattacharya, Amitabha</td>
<td>July 13, 2016</td>
<td>For contributions to microwave engineering and ground penetrating radars.</td>
</tr>
<tr>
<td>Bigelow, W. Scott</td>
<td>July 30, 2014</td>
<td>For the development of UWB antennas and HPM sources.</td>
</tr>
<tr>
<td>Name</td>
<td>Date of Election</td>
<td>Citation</td>
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<tr>
<td>-----------------------</td>
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<tr>
<td>Bohl, Jürgen</td>
<td>June 5, 2002</td>
<td>For determining the electromagnetic susceptibility of missile systems.</td>
</tr>
<tr>
<td>Bombardt, John N.</td>
<td>May 18, 1988</td>
<td>For contributions to the development of EMP technology for Army systems.</td>
</tr>
<tr>
<td>Bowen, Leland</td>
<td>July 23, 2008</td>
<td>For experimental development of ultra-wideband antennas and measurement systems.</td>
</tr>
<tr>
<td>Butler, Chalmers M.</td>
<td>July 14, 2004</td>
<td>For fundamental work in integral equation analysis of EMP and field penetration through apertures.</td>
</tr>
<tr>
<td>Carron, Neal A.</td>
<td>June 5, 2002</td>
<td>For the development for innovative techniques for the calculation of SGEMP environments.</td>
</tr>
<tr>
<td>Carter, Nigel J.</td>
<td>June 18, 1998</td>
<td>For development of innovative hardening and testing techniques for EMP, lightning and HPM.</td>
</tr>
<tr>
<td>Casey, Kendall F.</td>
<td>May 18, 1988</td>
<td>For contributions to the understanding of EMP interaction.</td>
</tr>
<tr>
<td>Castillo, J. Phillip</td>
<td>May 18, 1988</td>
<td>For contributions to the development of EMP system testing and assessment.</td>
</tr>
<tr>
<td>Chen, Kenneth C.</td>
<td>June 1, 2000</td>
<td>For the development of models for calculating the coupling to long cables.</td>
</tr>
<tr>
<td>Chepelev, Vladimir M.</td>
<td>August 26, 2020</td>
<td>For contributions to research of mechanisms of IEMI influence on electronic devices and development of concept of key parameters.</td>
</tr>
<tr>
<td>Christophe, Florent</td>
<td>July 4, 2012</td>
<td>For leadership of HPM innovative projects and international working groups.</td>
</tr>
<tr>
<td>Darrah, John H.</td>
<td>May 18, 1988</td>
<td>For contributions to the development of EMP technology in the areas of system hardening, simulation and testing.</td>
</tr>
<tr>
<td>Degauque, Pierre</td>
<td>June 2, 1994</td>
<td>For contributions to modeling of EM fields radiated by lightning and to analysis of EM field interaction with and protection of systems.</td>
</tr>
<tr>
<td>Dracott, E. Dennis</td>
<td>May 18, 1988</td>
<td>For contributions to the understanding of EMP generation culminating in the development of codes for the air burst.</td>
</tr>
<tr>
<td>Ehlen, Tilo</td>
<td>July 30, 2014</td>
<td>For contributions to the determination and analysis of HPEM susceptibility of electronic systems.</td>
</tr>
<tr>
<td>Erkkila, John H.</td>
<td>June 1, 2000</td>
<td>For the development of codes to calculate high-altitude EMP.</td>
</tr>
<tr>
<td>Farr, Everett G.</td>
<td>June 1, 2000</td>
<td>For theoretical design and experimental development of impulse radiating antennas.</td>
</tr>
<tr>
<td>Name</td>
<td>Date of Election</td>
<td>Citation</td>
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<tr>
<td>Fichte, Lars Ole</td>
<td>July 13, 2016</td>
<td>For contributions to the simulation of high-power electromagnetic interaction with electric devices and biological tissue, in addition to statistical methods for EMC.</td>
</tr>
<tr>
<td>Fromme, David</td>
<td>June 1, 2000</td>
<td>For innovations in electromagnetic lethality experimental techniques on operational systems and development of system effects test beds.</td>
</tr>
<tr>
<td>Garbe, Heyno</td>
<td>June 5, 2002</td>
<td>For contributions to the analysis of TEM waveguides.</td>
</tr>
<tr>
<td>Gardner, Robert L.</td>
<td>June 2, 1994</td>
<td>For fundamental contributions to the understanding of lightning phenomenology and the properties of multiconductor transmission lines.</td>
</tr>
<tr>
<td>Gilbert, James L.</td>
<td>July 22, 1992</td>
<td>For contributions to SREMP and SGEMP calculational methods and UGT analysis and design support.</td>
</tr>
<tr>
<td>Giles, Joseph C. (Cliff)</td>
<td>May 23, 1990</td>
<td>For contributions in the development of EMP simulation and instrumentation.</td>
</tr>
<tr>
<td>Giri, David Venkat</td>
<td>June 2, 1994</td>
<td>For contributions to EMP simulator design and HPM antenna design.</td>
</tr>
<tr>
<td>Gonschorek, Karl-Heinz</td>
<td>July 14, 2004</td>
<td>For contributions to the international standardization of susceptibility tests.</td>
</tr>
<tr>
<td>Graham, William R.</td>
<td>May 18, 1988</td>
<td>For contributions in the development of hardening engineering, test and evaluation.</td>
</tr>
<tr>
<td>Gut, Jacob</td>
<td>June 18, 1998</td>
<td>For leadership of the Swiss EMP program and development of the EMP concept of general defense.</td>
</tr>
<tr>
<td>Harrison, Michael G.</td>
<td>June 5, 2002</td>
<td>For contribution to research in EMP and HPM effects on systems.</td>
</tr>
<tr>
<td>He, Jinliang</td>
<td>August 30, 2018</td>
<td>For contributions to the understanding and protection of lightning discharging and electromagnetic effects</td>
</tr>
<tr>
<td>Hemmady, Sameer</td>
<td>August 26, 2020</td>
<td>For contributions to the development of High Power Electromagnetic (HPEM) systems including the development of complex computer models that accurately predict the susceptibility level of aerial electronic systems</td>
</tr>
<tr>
<td>Hoad, Richard</td>
<td>July 23, 2008</td>
<td>For contributions to the understanding of EMP and HPEM effects and for the development of detection and protection concepts.</td>
</tr>
<tr>
<td>Hubbard, Martin</td>
<td>July 30, 2014</td>
<td>For the provision of capability advice, the coordination and leadership of research and the facilitation of international cooperation, across the UK's HPEM activities.</td>
</tr>
<tr>
<td>Hurtig, Tomas</td>
<td>August 30, 2018</td>
<td>For development of compact HPM generators and contributions to HPM susceptibility testing.</td>
</tr>
<tr>
<td>Name</td>
<td>Date of Election</td>
<td>Citation</td>
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<tr>
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</tr>
<tr>
<td>Hutchins, Robert L.</td>
<td>May 30, 1996</td>
<td>For contributions to the analysis and design of EMP simulators and their use in system-level testing.</td>
</tr>
<tr>
<td>Ianoz, Michel</td>
<td>June 2, 1994</td>
<td>For contributions to EMP and lightning coupling techniques.</td>
</tr>
<tr>
<td>Jang, Tae-Heon</td>
<td>July 13, 2016</td>
<td>For contributions to the development of test methods for HEMP combination filters.</td>
</tr>
<tr>
<td>Jecko, Bernard</td>
<td>June 18, 1998</td>
<td>For contributions in the field of numerical techniques applicable to EMC, EMP and HPM analysis.</td>
</tr>
<tr>
<td>Jones, Christopher C. R.</td>
<td>July 7, 2010</td>
<td>For contributions to the protection of aircraft from EMP and other electromagnetic environments.</td>
</tr>
<tr>
<td>Jones, Christopher W.</td>
<td>May 23, 1990</td>
<td>For contributions to EMP environment calculations and system hardening.</td>
</tr>
<tr>
<td>Junqua, Isabelle</td>
<td>July 30, 2014</td>
<td>For pioneering power balance approaches in EM topology at high frequencies.</td>
</tr>
<tr>
<td>Kälin, Armin W.</td>
<td>June 1, 2000</td>
<td>For his leadership in the Swiss NEMP program, including pulse and CW testing of equipment and protected facilities.</td>
</tr>
<tr>
<td>Kancleris, Žilvinas</td>
<td>July 30, 2014</td>
<td>For contributions to the development of resistive sensors for HPM pulse measurement.</td>
</tr>
<tr>
<td>Karlsson, Torbjörn</td>
<td>July 22, 1992</td>
<td>For participation in, and technical leadership of the Swedish EMP program since 1974, for pioneering the generalized shield concept, and for extensive publications and conference presentations.</td>
</tr>
<tr>
<td>Kasmi, Chaouki</td>
<td>July 13, 2016</td>
<td>For contributions to electromagnetic and cyber security of critical services, internet and intranet systems.</td>
</tr>
<tr>
<td>Kehrer, William S.</td>
<td>June 2, 1994</td>
<td>For contributions to the development and application of EMP testing capabilities.</td>
</tr>
<tr>
<td>Kouvshinnikov, Vadim M.</td>
<td>May 30, 1996</td>
<td>For contributions to the understanding of the physics of high-altitude and surface-burst EMP generation, environments, and coupling to systems.</td>
</tr>
<tr>
<td>Kuprienko, Vassily M.</td>
<td>June 18, 1998</td>
<td>For contributions to the development of EMP, SGEMP and pulsed field simulators in Russia.</td>
</tr>
<tr>
<td>Lazarev, Yuri N.</td>
<td>July 13, 2006</td>
<td>For development of EMP, SGEMP and IEMP calculational techniques.</td>
</tr>
<tr>
<td>Lee, Kelvin S. H.</td>
<td>May 21, 1986</td>
<td>As one of the committee of founding fellows.</td>
</tr>
<tr>
<td>Lehr, Jane M.</td>
<td>August 30, 2018</td>
<td>For contributions to the development of fast closing pulsed power switches</td>
</tr>
<tr>
<td>Name</td>
<td>Date of Election</td>
<td>Citation</td>
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<tr>
<td>Leuthäuser, Klaus-Dieter</td>
<td>May 30, 1996</td>
<td>For leadership in Germany and Europe in the calculation of the HEMP environment.</td>
</tr>
<tr>
<td>Libelo, Louis F.</td>
<td>May 30, 1996</td>
<td>For contributions to the understanding of electromagnetic interactions and for leadership in HPM.</td>
</tr>
<tr>
<td>Loborev, Vladimir M.</td>
<td>May 30, 1996</td>
<td>For leadership of Russian nuclear effects research program and contributions to theoretical and experimental investigations of nuclear weapons effects.</td>
</tr>
<tr>
<td>Lövstrand, Karl G.</td>
<td>June 1, 2000</td>
<td>Outstanding combination of theoretical and practical knowledge in EMC and EMP testing, particularly of aircraft.</td>
</tr>
<tr>
<td>MacDiarmid, Ian P.</td>
<td>July 7, 2010</td>
<td>For contributions to the protection of aircraft from EMP and other electromagnetic environments.</td>
</tr>
<tr>
<td>Magda, Igor I.</td>
<td>June 18, 1998</td>
<td>For development of facilities for HPM testing of electronic equipment.</td>
</tr>
<tr>
<td>McLemore, Donald P.</td>
<td>June 5, 2002</td>
<td>For contributions to commercial and military applications of HPM/UWB technologies.</td>
</tr>
<tr>
<td>Meng, Cui</td>
<td>July 13, 2016</td>
<td>For contributions in computing the HEMP environment and developing HPEM environment standards.</td>
</tr>
<tr>
<td>Merrewether, David E.</td>
<td>May 23, 1990</td>
<td>For contributions to the application of numerical methods in EMP coupling analysis.</td>
</tr>
<tr>
<td>Messier, Michael A.</td>
<td>May 30, 1996</td>
<td>For developing the theory of DEMP, the theory of EMP reflections including frequency-dependent ground parameters, and evaluating the polarization of HEMP waveforms.</td>
</tr>
<tr>
<td>Miletta, Joseph R.</td>
<td>June 18, 1998</td>
<td>For contributions to research on EMP effects on components, circuits and systems.</td>
</tr>
<tr>
<td>Miller, Robert B. (Bruce)</td>
<td>June 5, 2002</td>
<td>For pioneering the super Reltron HPM source.</td>
</tr>
<tr>
<td>Mo, Charles T. C.</td>
<td>June 2, 1994</td>
<td>For unique contributions to the development and application of statistical models of EMP interaction with large complex systems.</td>
</tr>
<tr>
<td>Mora Parra, Nicolas</td>
<td>August 30, 2018</td>
<td>For contributions to IEMI sources and coupling to communication lines</td>
</tr>
<tr>
<td>Morrow-Jones, Jonathan</td>
<td>July 4, 2012</td>
<td>For contributions to analytical and numerical modeling of HPEM coupling and effects, testing, and data processing.</td>
</tr>
<tr>
<td>Nitsch, Daniel</td>
<td>July 13, 2006</td>
<td>For contributions to the testing and analysis of complex systems to EMP and UWB waveforms.</td>
</tr>
<tr>
<td>Name</td>
<td>Date of Election</td>
<td>Citation</td>
</tr>
<tr>
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<tr>
<td>Markus Nyffeler</td>
<td>November 16, 2022</td>
<td>For development of EMP test facilities and conducting tests of many critical assets</td>
</tr>
<tr>
<td>Ochs, Wilhelm</td>
<td>June 5, 2002</td>
<td>For contributions to EMP and HPM interaction with and effects on electronic systems.</td>
</tr>
<tr>
<td>Page, William E.</td>
<td>June 18, 1998</td>
<td>For contributions to EMP environment calculations, system testing and coupling analysis.</td>
</tr>
<tr>
<td>Pande, D. C.</td>
<td>July 13, 2016</td>
<td>For leadership of research and facilitation of international cooperation across India's HPEM activities.</td>
</tr>
<tr>
<td>Parfenov, Yuri V.</td>
<td>May 30, 1996</td>
<td>For contribution to calculations and experimental methods to study SGEMP effects and simulators for combined effects of EMP and ionizing radiation.</td>
</tr>
<tr>
<td>Parker, Roberts L.</td>
<td>May 18, 1988</td>
<td>For contributions to the test and hardening of strategic systems.</td>
</tr>
<tr>
<td>Parkes, David M.</td>
<td>June 1, 2000</td>
<td>For research on fast transient coupling to systems, high power microwaves and ultrawideband radar.</td>
</tr>
<tr>
<td>Parmantier, Jean P.</td>
<td>June 1, 2000</td>
<td>For pioneering application of electromagnetic topology with the CRIPTE code for the calculation of electromagnetic response of complex systems.</td>
</tr>
<tr>
<td>Peralia, Rodney A.</td>
<td>June 18, 1998</td>
<td>For contributions to EMP interaction modeling.</td>
</tr>
<tr>
<td>Petit, Barney J.</td>
<td>November 16, 2022</td>
<td>For contributions to research in high-power electromagnetic environments, effects and co-existence.</td>
</tr>
<tr>
<td>Petrov, Peter V.</td>
<td>July 13, 2006</td>
<td>For development of EMP, SGEMP and IEMP calculational techniques.</td>
</tr>
<tr>
<td>Phelps, Alan D. R.</td>
<td>August 30, 2018</td>
<td>For research and development of high power microwave sources.</td>
</tr>
<tr>
<td>Prather, William D.</td>
<td>June 18, 1998</td>
<td>For development of EMP and HPM test techniques and hardening standards.</td>
</tr>
<tr>
<td>Rachidi, Farhad</td>
<td>July 13, 2006</td>
<td>For contributions to the coupling of EM fields radiated by lightning.</td>
</tr>
<tr>
<td>Radasky, William A.</td>
<td>May 18, 1988</td>
<td>For contributions to understanding EMP generation and computation.</td>
</tr>
<tr>
<td>Rambousky, Ronald</td>
<td>July 30, 2014</td>
<td>For contributions to the analysis of open TEM waveguides.</td>
</tr>
<tr>
<td>Ribiére-Tharaud, Nicolas</td>
<td>August 26, 2020</td>
<td>For contributions to critical infrastructure HPEM analysis and protection.</td>
</tr>
<tr>
<td>Name</td>
<td>Date of Election</td>
<td>Citation</td>
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<tr>
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<tr>
<td>Romanchenko, Ilya V.</td>
<td>August 26, 2020</td>
<td>For the development of high power gyromagnetic nonlinear transmission lines and HPM sources on its basis.</td>
</tr>
<tr>
<td>Romero, Carlos</td>
<td>August 26, 2020</td>
<td>For contributions on the measurement and analysis of lightning and high power EMP simulators and coupling to civil and military systems.</td>
</tr>
<tr>
<td>Rubinstein, Marcos</td>
<td>July 4, 2012</td>
<td>For contributions to the understanding of lightning discharges and their electromagnetic effects.</td>
</tr>
<tr>
<td>Ruffing, Klaus</td>
<td>July 14, 2004</td>
<td>For leadership in the German HPM susceptibility investigations of defence systems.</td>
</tr>
<tr>
<td>Rynne, Timothy M.</td>
<td>July 4, 2012</td>
<td>For contributions to EMP hardening and IEMI lethality.</td>
</tr>
<tr>
<td>Sabath, Frank</td>
<td>July 13, 2006</td>
<td>For contributions to the development of high-power impulse-radiating antennas.</td>
</tr>
<tr>
<td>Sakharov, Konstantin Yu.</td>
<td>July 4, 2012</td>
<td>For contributions to the development of methods and facilities for EMP/UWB generation including measuring instruments to determine their parameters.</td>
</tr>
<tr>
<td>Savage, Edward B.</td>
<td>July 13, 2006</td>
<td>For contributions to the understanding of the susceptibility of electronic equipment to pulsed waveforms.</td>
</tr>
<tr>
<td>Schaefer, Richard R.</td>
<td>May 23, 1990</td>
<td>For contributions to the development of EMP hardness assessment methodology.</td>
</tr>
<tr>
<td>Schamiloglu, Edl</td>
<td>July 13, 2006</td>
<td>For development of pulse power and high-power microwave tubes.</td>
</tr>
<tr>
<td>Schlegel, Gerard K.</td>
<td>May 23, 1990</td>
<td>For contributions to the development of EMP hardness assessment methodology.</td>
</tr>
<tr>
<td>Scott, Walter J.</td>
<td>June 5, 2002</td>
<td>For contributions to EMP simulator testing, and for development of standards and management of R&amp;D programs.</td>
</tr>
<tr>
<td>Serafin, Dominique J.</td>
<td>May 30, 1996</td>
<td>For playing a leading role in developing theoretical and experimental programs in France and for contributions to interaction analysis and system testing.</td>
</tr>
<tr>
<td>Sevat, Peter</td>
<td>June 2, 1994</td>
<td>For leadership in EMP research in the areas of shielding, assessments, coupling, and semiconductor vulnerability and for design and construction of EMP simulators.</td>
</tr>
<tr>
<td>Shi Li-Hua</td>
<td>July 7, 2010</td>
<td>For contributions to EMP measurement and signal processing technology.</td>
</tr>
<tr>
<td>Name</td>
<td>Date of Election</td>
<td>Citation</td>
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<tr>
<td>Shiloh, Joseph</td>
<td>May 30, 1996</td>
<td>For leadership and contributions to EMP and HPM protection and testing in Israel.</td>
</tr>
<tr>
<td>Skipper, Michael C.</td>
<td>July 7, 2010</td>
<td>For the development of high power hyperband and mesoband sources.</td>
</tr>
<tr>
<td>Smith, Kenneth</td>
<td>July 23, 2008</td>
<td>For contributions to EMP environment and system coupling calculations.</td>
</tr>
<tr>
<td>Smith, Ian D.</td>
<td>June 1, 2000</td>
<td>For contributions to pulser for EMP simulation and impulse radiating antennas.</td>
</tr>
<tr>
<td>Smith, Paul</td>
<td>July 14, 2004</td>
<td>For contributions and leadership in projects modeling short-pulse electromagnetic and ultrawideband radar.</td>
</tr>
<tr>
<td>Sonnemann, Frank</td>
<td>July 30, 2014</td>
<td>For contributions to the analysis of electromagnetic effects on electro-explosive devices (EED) with connected firing circuits at pulsed wideband irradiation.</td>
</tr>
<tr>
<td>Soper, Gordon K.</td>
<td>May 30, 1996</td>
<td>For contributions to the nuclear hardening of strategic missile systems and to the management of the EMP technology development program.</td>
</tr>
<tr>
<td>Smith, Kenneth</td>
<td>July 23, 2008</td>
<td>For contributions to EMP environment and system coupling calculations.</td>
</tr>
<tr>
<td>Smith, Ian D.</td>
<td>June 1, 2000</td>
<td>For contributions to pulser for EMP simulation and impulse radiating antennas.</td>
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<tr>
<td>Smith, Paul</td>
<td>July 14, 2004</td>
<td>For contributions and leadership in projects modeling short-pulse electromagnetic and ultrawideband radar.</td>
</tr>
<tr>
<td>Sonnemann, Frank</td>
<td>July 30, 2014</td>
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</tr>
<tr>
<td>Soper, Gordon K.</td>
<td>May 30, 1996</td>
<td>For contributions to the nuclear hardening of strategic missile systems and to the management of the EMP technology development program.</td>
</tr>
<tr>
<td>Sturm, Richard</td>
<td>June 2, 1994</td>
<td>For leadership of the German EMP program and development of EMP interaction models, testing and protection techniques.</td>
</tr>
<tr>
<td>Name</td>
<td>Date of Election</td>
<td>Citation</td>
</tr>
<tr>
<td>------------------------</td>
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</tr>
<tr>
<td>Suhrke, Michael</td>
<td>July 30, 2014</td>
<td>For contributions to the testing and analysis of electronic systems to HPEM environments.</td>
</tr>
<tr>
<td>Tarasov, Oleg A.</td>
<td>August 30, 2018</td>
<td>For contributions to analytical and numerical modeling of NEMP and HPEM coupling and effects and for theoretical research on the influence of electromagnetic waveforms on antenna-feeder devices and communication and power supply lines.</td>
</tr>
<tr>
<td>Taylor, Clayborne D.</td>
<td>May 18, 1988</td>
<td>For pioneering work in numerical methods for EMP interaction and coupling studies.</td>
</tr>
<tr>
<td>ter Haseborg, Jan L.</td>
<td>June 18, 1998</td>
<td>For development of techniques for the calculation of coupling to shielded multiconductor transmission lines.</td>
</tr>
<tr>
<td>Tesche, Frederick M.</td>
<td>May 21, 1986</td>
<td>As one of the committee of founding fellows.</td>
</tr>
<tr>
<td>Terekhin, Vladimir A.</td>
<td>July 14, 2004</td>
<td>For developments of EMP calculation and testing techniques.</td>
</tr>
<tr>
<td>Thottappillii, Rajeev</td>
<td>July 7, 2010</td>
<td>For contributions to the understanding of the effects of lightning and intentional EMI on electrified railway systems.</td>
</tr>
<tr>
<td>Tkachenko, Sergey</td>
<td>July 23, 2008</td>
<td>For theoretical investigations of high-frequency electromagnetic field coupling to transmission lines in different environments.</td>
</tr>
<tr>
<td>Torres, Robert</td>
<td>July 23, 2008</td>
<td>For source technology development and effects research.</td>
</tr>
<tr>
<td>Turkin, Vladimir A.</td>
<td>July 4, 2012</td>
<td>For contributions to the creation of high-power EMP simulators and UWB sources.</td>
</tr>
<tr>
<td>Tyo, Scott</td>
<td>July 23, 2008</td>
<td>For contributions to mesoband and hyperband antenna design and measurements.</td>
</tr>
<tr>
<td>Uslenghi, Piergeorgio L. E.</td>
<td>June 5, 2002</td>
<td>For pioneering contributions to nonlinear electromagnetics.</td>
</tr>
<tr>
<td>van Lint, Victor A. J.</td>
<td>July 14, 2004</td>
<td>For contributions to the basic theory and insight into the mechanisms of EMP and SGEMP.</td>
</tr>
<tr>
<td>Vega, Felix</td>
<td>July 30, 2014</td>
<td>For contributions to the modeling and design of mesoband sources.</td>
</tr>
<tr>
<td>Vodopyanov, Georgy</td>
<td>July 23, 2008</td>
<td>For contributions to the investigation of the immunity of radio equipment, electronic systems and components to EMP.</td>
</tr>
<tr>
<td>Name</td>
<td>Date of Election</td>
<td>Citation</td>
</tr>
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<tr>
<td>Walters, Dolores A.</td>
<td>May 30, 1996</td>
<td>For box IEMP analysis and code methods development.</td>
</tr>
<tr>
<td>Wenaas, Eric P.</td>
<td>July 22, 1992</td>
<td>For performance and technical management in the areas of SGEMP theory and experiments, as well as microwave interaction and effects on military equipment.</td>
</tr>
<tr>
<td>Wik, Manuel W.</td>
<td>July 22, 1992</td>
<td>For contributions to the standardization of EMP environments and hardening procedures for non-military installations, for work with the International Electrotechnical Commission (IEC), and for management of the Swedish EMP program.</td>
</tr>
<tr>
<td>Wraight, Anthony</td>
<td>July 23, 2008</td>
<td>For development of predictive methods and contributions to the assessment of system-level EMP and HPEM effects.</td>
</tr>
<tr>
<td>Xiao, Renzhen</td>
<td>August 26, 2020</td>
<td>For contributions to novel beam-wave interaction mechanisms and phase locking.</td>
</tr>
<tr>
<td>Xie, Yan-Zhao</td>
<td>July 7, 2010</td>
<td>For contributions to EMP interaction, modeling and measurement.</td>
</tr>
<tr>
<td>Yang, F. C.</td>
<td>May 30, 1996</td>
<td>For development of simple analytical techniques to calculate and understand EM coupling to complex systems.</td>
</tr>
<tr>
<td>Zdoukhov, Leonid N.</td>
<td>May 30, 1996</td>
<td>For contributions to EMP coupling to aerial and underground cables, SREMP coupling to antennas and flying vehicles, and computational and experimental methods for combined EMP and ionizing radiation effects.</td>
</tr>
<tr>
<td>Zwamborn, Adrianus P. M.</td>
<td>July 14, 2004</td>
<td>For leadership of the EMP and HPM programs of the Netherlands.</td>
</tr>
<tr>
<td>Wenaas, Eric P.</td>
<td>July 22, 1992</td>
<td>For performance and technical management in the areas of SGEMP theory and experiments, as well as microwave interaction and effects on military equipment.</td>
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</tbody>
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# DECEASED EMP & HPEM FELLOWS

## November 2022

<table>
<thead>
<tr>
<th>Name</th>
<th>Date of Election</th>
<th>Citation</th>
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<tbody>
<tr>
<td>Abercrombie, Stanley D.</td>
<td>May 18, 1988</td>
<td>For contributions to EMP environmental measurements, beginning in the 1950’s.</td>
</tr>
<tr>
<td>Baum, Carl E.</td>
<td>May 21, 1986</td>
<td>As one of the committee of founding fellows.</td>
</tr>
<tr>
<td>Gao, You-Gang</td>
<td>July 7, 2010</td>
<td>For contributions to the protection of communications systems from the effects of lightning and EMP.</td>
</tr>
<tr>
<td>Harrison, Charles W. Jr.</td>
<td>June 5, 2002</td>
<td>For contributions in EMP interaction and modeling.</td>
</tr>
<tr>
<td>Higgins, Daniel F.</td>
<td>July 22, 1992</td>
<td>For contributions to SGEMP technology and for the development of user-friendly computer methods for estimating NEMP effects and coupling to systems and system vulnerability.</td>
</tr>
<tr>
<td>Hoeft, Luther O. (Bud)</td>
<td>June 1, 2000</td>
<td>For developing practical electromagnetic protection technologies.</td>
</tr>
<tr>
<td>Karzas, William J.</td>
<td>May 21, 1986</td>
<td>As one of the committee of founding fellows.</td>
</tr>
<tr>
<td>Kohlberg, Ira</td>
<td>July 14, 2004</td>
<td>For fundamental work in the development of the theory of electromagnetic effects and simulation.</td>
</tr>
<tr>
<td>Kondratiev, Valeri M.</td>
<td>May 30, 1996</td>
<td>For contributions to the understanding of EMP generation, environments, and coupling to systems.</td>
</tr>
<tr>
<td>Name</td>
<td>Date of Election</td>
<td>Citation</td>
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<tr>
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<tr>
<td>Longmire, Conrad, L.</td>
<td>May 21, 1986</td>
<td>As one of the committee of founding fellows.</td>
</tr>
<tr>
<td>Lubell, Jerry I.</td>
<td>June 1, 2000</td>
<td>For contributions to military specifications for system HEMP hardening and testing and to aircraft HEMP testing and assessments.</td>
</tr>
<tr>
<td>Malik, John S.</td>
<td>May 18, 1988</td>
<td>For contributions to understanding the roles of nuclear radiation sources and transport in EMP generation.</td>
</tr>
<tr>
<td>Marin, Lennart O.</td>
<td>May 21, 1986</td>
<td>As one of the committee of founding fellows.</td>
</tr>
<tr>
<td>Martin, John C. (Charlie)</td>
<td>May 18, 1988</td>
<td>For development of pulse power for EMP simulation.</td>
</tr>
<tr>
<td>Morgan, Gene E.</td>
<td>May 18, 1988</td>
<td>For development and application of EMP hardening to strategic systems.</td>
</tr>
<tr>
<td>Nalborczyk, Jan</td>
<td>July 30, 2014</td>
<td>For contributions to advances in HEMP filter design.</td>
</tr>
<tr>
<td>Nitsch, Jürgen B.</td>
<td>June 18, 1998</td>
<td>For leadership of the German EMP and HPM programs, and for pioneering contributions to the analysis of nonuniform multiconductor transmission lines.</td>
</tr>
<tr>
<td>Partridge, Ralph E.</td>
<td>May 18, 1988</td>
<td>For pioneering contributions to EMP measurement and simulation.</td>
</tr>
<tr>
<td>Siniy, Leonid L.</td>
<td>July 13, 2006</td>
<td>For development of EMP measurement techniques.</td>
</tr>
<tr>
<td>Sower, Gary D.</td>
<td>June 1, 2000</td>
<td>For development of electromagnetic sensors and EMP simulators.</td>
</tr>
<tr>
<td>Stahl, Ralph H.</td>
<td>May 23, 1990</td>
<td>For contributions to the source-region EMP physics data-base.</td>
</tr>
<tr>
<td>Vance, Edward F.</td>
<td>May 21, 1986</td>
<td>As one of the committee of founding fellows.</td>
</tr>
</tbody>
</table>