



EMP FELLOWS

December 2010

Name	Date of Election	Citation
Abdalla, Michael D.	July 7, 2010	For the development of high power hyperband and mesoband sources
Abercrombie, Stanley D.	May 18, 1988	For contributions to EMP environmental measurements, beginning in the 1950's.
Antinone, Robert J.	June 5, 2002	For the development of HPRF assessment and hardening techniques.
Aurand, John	July 23, 2008	For contributions to high-precision measurements in high-power electromagnetics.
Bäckström, Mats	June 5, 2002	For development of HPM test techniques and facilities.
Baker, George H.	July 22, 1992	For contributions to EMP generation and hardening technology, for development of standards and specifications, and management of R&D programs.
Barnes, Paul R.	July 22, 1992	For contributions to EMP analysis and development of the test and protection methods for commercial power systems.
Benford, James N.	June 18, 1998	For development of HPM Sources.
Bohl, Jürgen	June 5, 2002	For determining the electromagnetic susceptibility of missile systems.
Bombardt, John N.	May 18, 1988	For contributions to the development of EMP technology for Army systems.
Bowen, Leland	July 23, 2008	For experimental development of ultra-wideband antennas and measurement systems.

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Butler, Chalmers M.	July 14, 2004	For fundamental work in integral equation analysis of EMP and field penetration through apertures.
Carron, Neal A.	June 5, 2002	For the development for innovative techniques for the calculation of SGEMP environments.
Carter Nigel J.	June 18, 1998	For development of innovative hardening and testing techniques for EMP, lightning and HPM.
Casey, Kendall F.	May 18, 1988	For contributions to the understanding of EMP interaction.
Castillo, J. Phillip	May 18, 1988	For contributions to the development of EMP system testing and assessment.
Chen, Kenneth C.	June 1, 2000	For the development of models for calculating the coupling to long cables.
Darrah, John H.	May 18, 1988	For contributions to the development of EMP technology in the areas of system hardening, simulation and testing.
Degauque, Pierre	June 2, 1994	For contributions to modeling of EM fields radiated by lightning and to analysis of EM field interaction with and protection of systems.
Dracott, E. Dennis	May 18, 1988	For contributions to the understanding of EMP generation culminating in the development of codes for the air burst.
Erkkila, John H.	June 1, 2000	For the development of codes to calculate high-altitude EMP.
Farr, Everett G.	June 1, 2000	For theoretical design and experimental development of impulse radiating antennas.
Fromme, David	June 1, 2000	For innovations in electromagnetic lethality experimental techniques on operational systems and development of system effects test beds.
Gao, You-Gang	July 7, 2010	For contributions to the protection of communications systems from the effects of lightning and EMP
Garbe, Heyno	June 5, 2002	For contributions to the analysis of TEM waveguides.
Gardner, Robert L.	June 2, 1994	For fundamental contributions to the understanding of lightning phenomenology and the properties of multiconductor transmission lines.
Gilbert, James L.	July 22, 1992	For contributions to SREMP and SGEMP calculational methods and UGT analysis and design support.
Giles, Joseph C. (Cliff)	May 23, 1990	For contributions in the development of EMP simulation and instrumentation.

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Giri, David Venkat	June 2, 1994	For contributions to EMP simulator design and HPM antenna design.
Gonschorek, Karl-Heinz	July 14, 2004	For contributions to the international standardization of susceptibility tests.
Graham, William R.	May 18, 1988	For contributions in the development of hardening engineering, test and evaluation.
Gut, Jacob	June 18, 1998	For leadership of the Swiss EMP program and development of the EMP concept of general defense.
Harrison, Michael G.	June 5, 2002	For contribution to research in EMP and HPM effects on systems.
Higgins, Daniel F.	July 22, 1992	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.
Hoad, Richard	July 23, 2008	For contributions to the understanding of EMP and HPEM effects and for the development of detection and protection concepts.
Hoefl, Luther O. (Bud)	June 1, 2000	For developing practical electromagnetic protection technologies.
Hutchins, Robert L.	May 30, 1996	For contributions to the analysis and design of EMP simulators and their use in system-level testing.
Ianoz, Michel	June 2, 1994	For contributions to EMP and lightning coupling techniques.
Jecko, Bernard	June 18, 1998	For contributions in the field of numerical techniques applicable to EMC, EMP and HPM analysis.
Jones, Christopher C. R.	July 7, 2010	For contributions to the protection of aircraft from EMP and other electromagnetic environments
Jones, Christopher W.	May 23, 1990	For contributions to EMP environment calculations and system hardening.
Kälin, Armin W.	June 1, 2000	For his leadership in the Swiss NEMP program, including pulse and CW testing of equipment and protected facilities.
Karlsson, Torbjörn	July 22, 1992	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.

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Kehrer, William S.	June 2, 1994	For contributions to the development and application of EMP testing capabilities.
Kohlberg, Ira	July 14, 2004	For fundamental work in the development of the theory of electromagnetic effects and simulation.
Kondratiev, Valeri M.	May 30, 1996	For contributions to the understanding of EMP generation, environments, and coupling to systems.
Kouvshinnikov, Vadim M.	May 30, 1996	For contributions to the understanding of the physics of high-altitude and surface-burst EMP generation, environments, and coupling to systems.
Kuprienko, Vassily M.	June 18, 1998	For contributions to the development of EMP, SGEMP and pulsed field simulators in Russia.
Lazarev, Yuri N.	July 13, 2006	For development of EMP, SGEMP and IEMP calculational techniques.
Lee, Kelvin S. H.	May 21, 1986	As one of the committee of founding fellows.
Leuthäuser, Klaus-Dieter	May 30, 1996	For leadership in Germany and Europe in the calculation of the HEMP environment.
Libelo, Louis F.	May 30, 1996	For contributions to the understanding of electromagnetic interactions and for leadership in HPM.
Loborev, Vladimir M.	May 30, 1996	For leadership of Russian nuclear effects research program and contributions to theoretical and experimental investigations of nuclear weapons effects.
Lövstrand, Karl G.	June 1, 2000	Outstanding combination of theoretical and practical knowledge in EMC and EMP testing, particularly of aircraft.
Lubell, Jerry I.	June 1, 2000	For contributions to military specifications for system HEMP hardening and testing and to aircraft HEMP testing and assessments.
MacDiarmid, Ian P.	July 7, 2010	For contributions to the protection of aircraft from EMP and other electromagnetic environments
Magda, Igor I.	June 18, 1998	For development of facilities for HPM testing of electronic equipment.
McLemore, Donald P.	June 5, 2002	For contributions to commercial and military applications of HPM/UWB technologies.
Merewether, David E.	May 23, 1990	For contributions to the application of numerical methods in EMP coupling analysis.

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Messier, Michael A.	May 30, 1996	For developing the theory of DEMP, the theory of EMP reflections including frequency-dependent ground parameters, and evaluating the polarization of HEMP waveforms.
Miletta, Joseph R.	June 18, 1998	For contributions to research on EMP effects on components, circuits and systems.
Miller, Robert B. (Bruce)	June 5, 2002	For pioneering the super Reltron HPM source.
Mo, Charles T. C.	June 2, 1994	For unique contributions to the development and application of statistical models of EMP interaction with large complex systems.
Naff, John T. (Tom)	June 5, 2002	For development of pulse generators for EMP simulation and HPM generation.
Nitsch, Daniel	July 13, 2006	For contributions to the testing and analysis of complex systems to EMP and UWB waveforms.
Nitsch, Jürgen B.	June 18, 1998	For leadership of the German EMP and HPM programs, and for pioneering contributions to the analysis of nonuniform multiconductor transmission lines.
Ochs, Wilhelm	June 5, 2002	For contributions to EMP and HPM interaction with and effects on electronic systems.
Page, William E.	June 18, 1998	For contributions to EMP environment calculations, system testing and coupling analysis.
Parfenov, Yuri V.	May 30, 1996	For contribution to calculations and experimental methods to study SGEMP effects and simulators for combined effects of EMP and ionizing radiation.
Parker, Roberts L.	May 18, 1988	For contributions to the test and hardening of strategic systems.
Parkes, David M.	June 1, 2000	For research on fast transient coupling to systems, high power microwaves and ultrawideband radar.
Parmantier, Jean P.	June 1, 2000	For pioneering application of electromagnetic topology with the CRIPTE code for the calculation of electromagnetic response of complex systems.
Partridge, Ralph E.	May 18, 1988	For pioneering contributions to EMP measurement and simulation.
Perala, Rodney A.	June 18, 1998	For contributions to EMP interaction modeling.
Petrov, Peter V.	July 13, 2006	For development of EMP, SGEMP and IEMP calculational techniques.
Prather, William D.	June 18, 1998	For development of EMP and HPM test techniques and hardening standards.

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Rachidi, Farhad	July 13, 2006	For contributions to the coupling of EM fields radiated by lightning.
Radasky, William A.	May 18, 1988	For contributions to understanding EMP generation and computation.
Ruffing, Klaus	July 14, 2004	For leadership in the German HPM susceptibility investigations of defence systems.
Sabath, Frank	July 13, 2006	For contributions to the development of high-power impulse-radiating antennas.
Savage, Edward B.	July 13, 2006	For contributions to the understanding of the susceptibility of electronic equipment to pulsed waveforms.
Schaefer, Richard R.	May 23, 1990	For contributions to the development of EMP hardness assessment methodology.
Schamiloglu, Edl	July 13, 2006	For development of pulse power and high-power microwave tubes.
Schlegel, Gerard K.	May 23, 1990	For contributions to the development of EMP hardness assessment methodology.
Scott, Walter J.	June 5, 2002	For contributions to EMP simulator testing, and for development of standards and management of R&D programs.
Serafin, Dominique J.	May 30, 1996	For playing a leading role in developing theoretical and experimental programs in France and for contributions to interaction analysis and system testing.
Sevat, Peter	June 2, 1994	For leadership in EMP research in the areas of shielding, assessments, coupling, and semiconductor vulnerability and for design and construction of EMP simulators.
Siniy, Leonid L.	July 13, 2006	For development of EMP measurement techniques.
Shi Li-Hua	July 7, 2010	For contributions to EMP measurement and signal processing technology
Shiloh, Joseph	May 30, 1996	For leadership and contributions to EMP and HPM protection and testing in Israel.
Skipper, Michael C.	July 7, 2010	For the development of high power hyperband and mesoband sources
Smith, Kenneth	July 23, 2008	For contributions to EMP environment and system coupling calculations.
Smith, Ian D.	June 1, 2000	For contributions to pulsers for EMP simulation and impulse radiating antennas.

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Smith, Paul	July 14, 2004	For contributions and leadership in projects modeling short-pulse electromagnetic and ultrawideband radar.
Soper, Gordon K.	May 30, 1996	For contributions to the nuclear hardening of strategic missile systems and to the management of the EMP technology development program.
Sower, Gary D.	June 1, 2000	For development of electromagnetic sensors and EMP simulators.
Sturm, Richard	June 2, 1994	For leadership of the German EMP program and development of EMP interaction models, testing and protection techniques.
Taylor, Clayborne D.	May 18, 1988	For pioneering work in numerical methods for EMP interaction and coupling studies.
ter Haseborg, Jan L.	June 18, 1998	For development of techniques for the calculation of coupling to shielded multiconductor transmission lines.
Tesche, Frederick M.	May 21, 1986	As one of the committee of founding fellows.
Terekhin, Vladimir A.	July 14, 2004	For developments of EMP calculation and testing techniques.
Thottappillil, Rajeev	July 7, 2010	For contributions to the understanding of the effects of lightning and intentional EMI on electrified railway systems.
Tkachenko, Sergey	July 23, 2008	For theoretical investigations of high-frequency electromagnetic field coupling to transmission lines in different environments.
Torres, Robert	July 23, 2008	For source technology development and effects research.
Tyo, Scott	July 23, 2008	For contributions to mesoband and hyperband antenna design and measurements.
Uslenghi, Piergeorgio L. E.	June 5, 2002	For pioneering contributions to nonlinear electromagnetics.
van Lint, Victor A. J.	July 14, 2004	For contributions to the basic theory and insight into the mechanisms of EMP and SGEMP.
Vodopyanov, Georgy	July 23, 2008	For contributions to the investigation of the immunity of radio equipment, electronic systems and components to EMP.
Walters, Dolores A.	May 30, 1996	For box IEMP analysis and code methods development.

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Wenaas, Eric P.	July 22, 1992	For performance and technical management in the areas of SGEMP theory and experiments, as well as microwave interaction and effects on military equipment.
Wik, Manuel W.	July 22, 1992	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.
Wraight, Anthony	July 23, 2008	For development of predictive methods and contributions to the assessment of system-level EMP and HPEM effects.
Xie, Yan-Zhao	July 7, 2010	For contributions to EMP interaction, modeling and measurement
Yang, F. C.	May 30, 1996	For development of simple analytical techniques to calculate and understand EM coupling to complex systems.
Zdoukhov, Leonid N.	May 30, 1996	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.
Zwamborn, Adrianus P. M.	July 14, 2004	For leadership of the EMP and HPM programs of the Netherlands.



DECEASED EMP FELLOWS

December 2010

Name	Date of Election	Citation
Baum, Carl E.	May 21, 1986	As one of the committee of founding fellows.
Harrison, Charles W. Jr.	June 5, 2002	For contributions in EMP interaction and modeling.
Karzas, William J.	May 21, 1986	As one of the committee of founding fellows.
Longmire, Conrad, L.	May 21, 1986	As one of the committee of founding fellows.
Malik, John S.	May 18, 1988	For contributions to understanding the roles of nuclear radiation sources and transport in EMP generation.
Marin, Lennart O.	May 21, 1986	As one of the committee of founding fellows.
Martin, John C. (Charlie)	May 18, 1988	For development of pulse power for EMP simulation.
Morgan, Gene E.	May 18, 1988	For development and application of EMP hardening to strategic systems.
Stahl, Ralph H.	May 23, 1990	For contributions to the source-region EMP physics data-base.
Vance, Edward F.	May 21, 1986	As one of the committee of founding fellows.