



# Carl E. Baum Medal

In 2016 Dr. Sholapurwala approached Dr. Dave Giri to initiate the concept of the Carl E. Baum Medal to be awarded to persons for their long-standing accomplishments in the field of Applied Electromagnetics. Dr. Giri approached the Board of Directors of the Summa Foundation in Albuquerque, New Mexico, USA and the Summa Board agreed with the idea of this award. Further Drs. Sholapurwala and Giri, donated \$1,000 each to Summa Foundation to facilitate this award. Twenty-five medals were produced and provided to the Summa Foundation.

It was decided that the Summa Board of Directors would select the medal awardees each year and could choose any number between 0 and 4. In the inaugural year (2017) 4 initial awards were made to Drs. David Giri, Kelvin Lee, William Radasky, and Fred Tesche. In 2018 two additional awards were presented to Dr. Mat Bäckström and Bill Prather. The list below will be updated as additional persons are honored.

| Name                 | Date of Election | Citation                                                                                                                                                                                                                                                         |
|----------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Everett G. Farr      | 2024             | <i>For his contribution to the theoretical design and experimental development of impulse radiating antennas and to his pioneering the antenna equation</i>                                                                                                      |
| Armin W. Kaelin      | 2024             | <i>For his contributions in leading the Swiss NEMP Program, including pulsed and CW testing of equipment and protected facilities</i>                                                                                                                            |
| George H. Baker      | 2022             | <i>For contributions to EMP generation and hardening technology, for the development of standards and specifications, for the management of R&amp;D programs and for his work with the U.S. National Security Council relating to the Executive Order on EMP</i> |
| Paul R. Barnes       | 2022             | <i>For contributions to EMP analysis and the development of the test and protection methods for commercial power systems</i>                                                                                                                                     |
| William R. Graham    | 2022             | <i>For contributions to the development of hardening engineering, test and evaluation and for chairing the U.S. Congressional EMP Commission</i>                                                                                                                 |
| Richard Hoad         | 2022             | <i>For contributions to the understanding of EMP and HPEM effects and for the development of detection and protection concepts</i>                                                                                                                               |
| Michel Ianoz         | 2022             | <i>For contributions to EMP and lightning coupling techniques</i>                                                                                                                                                                                                |
| Manuel W. Wik        | 2022             | <i>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</i>                    |
| Jean P. Parmantier   | 2019             | <i>For pioneering application of electromagnetic topology with the CRIPTE code for the calculation of electromagnetic response of complex systems</i>                                                                                                            |
| Dominique J. Serafin | 2019             | <i>For playing a leading role in developing theoretical and experimental programs in France and for contributions to interaction analysis and system testing</i>                                                                                                 |
| Sergey Tkachenko     | 2019             | <i>For theoretical investigations of high-frequency electromagnetic field coupling to transmission lines in different environments</i>                                                                                                                           |
| Yan-zhao Xie         | 2019             | <i>For contributions to EMP interaction, modeling and measurement</i>                                                                                                                                                                                            |
| Mats Bäckström       | August 30, 2018  | <i>For contributions to the development of HPEM test techniques and facilities</i>                                                                                                                                                                               |
| David V. Giri        | July 26, 2017    | <i>For major contributions to EMP and HPM and for ensuring the legacy of Carl E. Baum</i>                                                                                                                                                                        |
| Kelvin S. H. Lee     | July 26, 2017    | <i>For seminal contributions to EMP</i>                                                                                                                                                                                                                          |
| William D. Prather   | August 30, 2018  | <i>For contributions to EMP and HPM testing and hardening</i>                                                                                                                                                                                                    |
| William A. Radasky   | July 26, 2017    | <i>For contributions to understanding EMP generation and computation</i>                                                                                                                                                                                         |
| Frank Sabath         | July 1, 2026     | <i>For contributions to the development of high-power impulse-radiating antennas and to high power electromagnetic effects on systems</i>                                                                                                                        |
| Frederick M. Tesche  | July 26, 2017    | <i>For contributions to electromagnetic topology and EMC</i>                                                                                                                                                                                                     |
| Felix Vega           | July 1, 2026     | <i>For contributions to the modeling and design of mesoband sources and to the development of high-power electromagnetic systems</i>                                                                                                                             |