

**HARDENED ELECTRONICS AND RADIATION TECHNOLOGY  
PETER H. HAAS AWARD - 2020**

**PURPOSE OF THE AWARD:**

Peter Haas (1921-1986) was a pioneer in the field of nuclear weapons effects beginning in the mid 1950s. He proposed and conducted landmark experiments on nuclear electromagnetic pulse (EMP) and transient radiation effects on electronics (TREE) at the Nevada and Pacific Nuclear Test Sites. He was a strong advocate for laboratory simulation facilities, and it was under his direction that some of the early neutron displacement effects research was performed in pulsed nuclear reactors. He had the imagination and foresight to suggest that electronic circuitry might undergo severe changes in behavior when exposed to a nuclear radiation pulse, and this was the genesis of the discipline known as TREE.

The purpose of the Peter Haas Award is to recognize individuals "who have demonstrated outstanding and innovative technical contributions or leadership in the successful development of U.S. hardened military and space systems."

**BASIS OF THE AWARD:**

The recipients shall be selected on the basis of outstanding technical innovation and leadership in the successful development of U.S. hardened military and space systems. The contributions may include research leading to system hardening, research in hardness verification and validation technologies, implementation of hardening in system development, or technical leadership and management of hardened system development.

**AWARD:**

The award consists of a plaque reading: "For Superior Achievement in Radiation Survivability Research and Technology" and an individual citation on permanent award display.

**ELIGIBILITY:**

Any member of the hardened military and space systems community is eligible for the award, with the exception of current members of the HEART Steering Committee. The HEART Steering Committee currently consists of the following persons:

Chairman.....	Christine Coverdale
Vice-Chairman.....	Kelly Simmons-Potter
Secretary .....	Pauline Paki
Treasurer .....	Kathy Doughty
Publications Chairman.....	Keith Avery
Senior Member-at-Large .....	Nathan Moore
Member-at-Large .....	Erin Lennon
Junior Member-at-Large .....	Matt Halstead
Senior Past Steering Committee Chairman .....	Lloyd Massengill
Junior Past Steering Committee Chairman.....	Jonathan Fisher

**DEADLINE:**

**The submission deadline is November 1, 2019 for the 2020 award.**

**NOMINEE SOLICITATION:**

Solicitation for nominees shall be made via 1) direct mailing of nomination forms to past HEART attendees as requested; and 2) announcements of nomination forms at the HEART Conference. Individuals may be nominated by submitting the official form to the HEART Steering Committee Vice-Chairman by email. If postal mail is preferred, please contact the vice-chairman directly for arrangements.

**AWARDS COMMITTEE:**

The HEART Steering Committee shall establish a Professional Awards Committee to be chaired by the Steering Committee Vice-Chairman. Annually, the Professional Awards Committee Chairman will form a committee composed of at least three senior members of the system hardening research and development communities, subject to approval of the HEART Steering Committee. The HEART Vice-Chairman will be responsible for collecting and presenting all valid nominations and will be a voting member of the Awards Committee. An award recommendation will be prepared by the Awards Committee and submitted to the HEART Steering Committee for approval.

**INSTRUCTIONS FOR NOMINATION SUBMISSION:**

Please prepare a nomination package following the attached template. Note that at least five endorsement letters are also required. The nomination material should be emailed, in PDF format, prior to the nomination deadline to:

Kelly Simmons-Potter  
University of Arizona  
HEART Steering Committee Vice-Chairman  
kspotter@ece.arizona.edu

**Deadline: Nov. 1, 2019 for the 2020 award**

**NOMINATOR: PLEASE SUPPLY THE FOLLOWING INFORMATION:**

**NOMINEE INFORMATION:**

Name:  
Home Address:  
Email Address:

**PROPOSED CITATION:**

Include short citation for inscription on the plaque name plate.

**NOMINATOR INFORMATION:**

Name:  
Address:  
Email Address:  
Daytime Telephone:  
FAX Number:  
Signature:

**NOMINATION:**

**PROFESSIONAL HISTORY:**

- Resume of nominee's employment and professional positions
- Description of the primary contributions of the nominee in the area of survivability.

**AWARD JUSTIFICATION:**

- Evidence of technical accomplishment of the nominee as related to the Hass criteria (page 1). Provide specific examples.

**TECHNICAL ACTIVITIES:**

- List of nominee's professional affiliations and leadership roles; e.g., advisory boards, national panels, oversight councils, conference organization committees, etc.
- List any other professional contributions, not described in the Awards Justification section above, relevant to the nomination and for consideration by the selection committee.

**ENDORSEMENTS:**

A minimum of five (5) endorsement letters from members of the community are required. List the names and addresses of endorsees here. Request those making endorsements to email letters (in PDF format) directly to:

Kelly Simmons-Potter  
University of Arizona  
HEART Steering Committee Vice-Chairman  
kspotter@ece.arizona.edu