HARDENED ELECTRONICS AND RADIATION TECHNOLOGY
PETER H. HAAS AWARD – 2027

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 damage 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".

We congratulate the 2026 Peter H. Haas Award winner, Dr. Lloyd Massengill, and we are now open for nomination package submissions for the 2027 award.

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	Michael McLain
Vice-Chairman	Keith Avery
Secretary	Jeff Kauppila
Treasurer	Kathy Doughty
Publications Chairman	Heather Jiles
Senior Member-at-Large	Jesse Mee
Member-at-Large	Waverly Gorman
Junior Member-at-Large	Joe Morris
Senior Past Steering Committee Chairman	Christine Coverdale
Junior Past Steering Committee Chairman	Sarah Armstrong

DEADLINE:
The submission deadline is December 1, 2026 for the 2027 award.

NOMINEE SOLICITATION:

Solicitation for nominees shall be made via 1) direct email; 2) mailing of nomination forms to past HEART attendees as requested; and 3) announcements of nomination forms at HEART meetings. 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:

Keith Avery
Air Force Research Laboratory
HEART Steering Committee Vice-Chairman
Keith.avery.7.ctr@spaceforce.mil

Please note that the award package is valid for 3 years. If the nominee hasn't been selected during those 3 years the package can be resubmitted. It is encouraged, but not necessary, that the package and letters of support be updated.

Deadline: December 1, 2026 for the 2027 award

NOMINATOR: PLEASE SUPPLY THE FOLLOWING INFORMATION

NOMINEE INFORMATION:

Name:
Home/Work Address:
Email Address:

PROPOSED CITATION:

Include short citation for inscription on the plaque name plate.

NOMINATOR INFORMATION:

Name:
Address:
Email Address:
Daytime Telephone:
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 email address of endorsees here. Request endorsees to email the endorsement letters to you and then email the entire package (endorsement letters and nomination form) in PDF format directly to:

Keith Avery
Air Force Research Laboratory
HEART Steering Committee Vice-Chairman
Keith.avery.7.ctr@spaceforce.mil