

# Got Residual Stress

ASM INTERNATIONAL RESIDUAL STRESS  
TECHNICAL COMMITTEE

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## Members in the News

As a member of ASM-RSTC, you are part of a group of multi-faceted, talented individuals. We will be featuring our members who are making headlines. The intent is to promote the successes of our members and get to know them better.

This edition features Ray Fryan and Mike Hill. Read, enjoy, and submit your own success stories!

### Ray Fryan

Ray Fryan is on staff at ASM and provides valuable support for the ASM-RSTC. When we were looking for submissions for Members in the News, I asked if any of our members had ever run in the Boston Marathon. Not only has Ray run multiple times, he has the medal to prove superior performance. The link below provides the story in Ray's words.

<https://bit.ly/3yHTVyt>

### Michael Hill

Mike Hill is our current chair and a professor at UC-Davis. He has been awarded the GA Brewer Award presented by the Society for Experimental Mechanics at their 2022 Spring Conference. Read about Mike and this prestigious award at the following link.

<https://mae.ucdavis.edu/news/mike-hill-wins-2022-ga-brewer-award>

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# ASM Handbook Series

The ASM HANDBOOK series (formerly METALS HANDBOOK) is a renowned resource of metallurgical and materials engineering reference information published by ASM International. It provides standard reference works of authoritative, peer consensus information in major technological areas of materials science, technology, manufacturing, testing, analysis, and application. The ASM HANDBOOK series is to be of superior quality—of which every member of the Society should be proud—organized, written, reviewed, and edited by recognized authorities. The meaning and stature of the ASM HANDBOOK series also are not to be demeaned by the devotion of a major volume to a minor technological subject nor by inclusion in any volume of substantial portions of material reprinted from other sources.

The series began in 1924 as looseleaf data sheets published by the American Society for Steel Treating (ASST). It continued with three new editions published by ASST as bound volumes in 1929, 1930, 1933:

- ASST Handbook, 2nd edition, 1929,
- National Metals Handbook, 3rd Edition, 1930,
- National Metals Handbook, 4th Edition, 1933

In 1933 ASST became the American Society for Metals (ASM) with William Eisenman as its managing director. Subsequent single bound volumes of the Metals Handbooks published by ASM were:

- Metals Handbook, 5th Edition, 1936,
- Metals Handbook, 6th Edition, 1939
- Metals Handbook 7th Edition, 1948



The 7th Edition published in 1948 is particularly renowned and cherished by members of the Society. Taylor Lyman, as handbook editor, also wrote the preface in this edition with words that are still apt today, as the single-volume handbook later became a multi-volume series as the 8th, 9th, and 10th Editions of the Metals Handbook series and the current ongoing or “living” edition of the ASM Handbook Series. The apt words by Dr. Lyman were:

*The aim of the Metals Handbook Committee has been to provide a single volume that will serve the needs of those who wish to know the accurate facts, the specific meaning and the real, significance of metallurgical subjects. To include every item that might answer a query would make a morgue of little-used details and defeat easy use of the book. Therefore, the plan of this work has been to stress the fundamental or essential aspects of the various subjects by means of explanatory articles, rather than merely to display opaque facts in a solid array.*

The body of metallurgical and materials knowledge also continues to grow; as such the ASM Handbook series also has grown with in print and digital publication at:

[https://dl.asminternational.org/handbooks/pages/Handbooks\\_by\\_Volume](https://dl.asminternational.org/handbooks/pages/Handbooks_by_Volume)

*Steve Lampman,  
May 20, 2022*



## Steve Lampman

In the spring of 1988, Steve Lampman began work as a technical editor with handbook staff in the Reference Publications Department of ASM International. The project at that time was developing a new edition of volume on machining (Machining, Volume 16, Metals Handbook 9th Edition, 1989). The job involved the very routine work of doing unit conversions (with appropriate rounding) and the editing and review of manuscripts and peer reviews. In addition to handling peer reviews of handbook manuscripts, some of the work also involved rewriting, writing, and research on technical points or filling important gaps in coverage. This involved writing on quite a variety of subjects early on, ranging from “Machining of Heat-Resistant Alloys” to “Energy-Efficient Heat-Treating Furnace Design and Operation.” At the time, ASM had a very large Materials Information Department that maintained a computerized bibliographic abstracting system (METADEX). This resource, in addition to the library operated by the Material Information Department, was a valuable tool not only for technical staff, but also a way to help gather information for volunteer authors.

*We wish Steve the best in his retirement! For publication questions regarding the RSTC Handbook, please contact Karen Marken, Karen.Marken@asminternational.org.*

I took to these tasks with curiosity and interest, along with a desire for clear, concise, and meaningful writing. Prior to working at ASM, I was consumed by ideas in quantum field and cosmology that compelled me to habits of writing, rewriting and, of course, rejection. I knew these parts of the process (or ordeal?) of writing. Eventually, I became more involved in the ideation, organization, and implementation of books published by ASM. Some of the more unique were ASM Handbook, Volume 19, Fatigue and Fracture, Weld Integrity and Performance, and Characterization and Failure Analysis of Plastics. I also have ghost written many papers. One of my relatively recent favorites from ghost writing is Electrochemical Methods, ASM Handbook Volume 10: <https://doi.org/10.31399/asm.hb.v10.a0006679>

With retirement, my plan is to spend more time with my wife, Heather, our four Corgis, my vegetable garden, and a host of clematis varieties. I also still have some research interests in developing mathematical criterion for the sizing and mapping of legislative districts and some potential insights in quantum theory regarding unification and cosmology.

# Upcoming Conferences

DXC (Denver X-ray Conference), Aug.1 2022  
<https://www.dxcicdd.com/registration/>

ICSP (Int Conf on Shot Peening), Sept. 4, 2022, (Milan)  
<https://www.icsp14.org>

IMAT 2022, Sept. 13, 2022  
<https://www.asminternational.org/web/imat-2022>

Fatigue 2022, Oct. 16, 2022 (Hiroshima)  
<https://www.showsbee.com/fairs/Fatigue-Congress.html>

Shot Peening & Surface Enhancement Workshop,  
Oct. 24 - 26, 2022  
[http://www.shotpeeningtraining.com/seminars/usa/?utm\\_source=delivra&utm\\_medium=email&utm\\_campaign=2022%20US%20Seminar&utm\\_id=43471250](http://www.shotpeeningtraining.com/seminars/usa/?utm_source=delivra&utm_medium=email&utm_campaign=2022%20US%20Seminar&utm_id=43471250)

ICMFF13 (13th International Conference on Multiaxial Fatigue and Fracture), Nov. 2022  
<https://na.eventscloud.com/website/33078/icmff13-conf-/>

ICF 15 (Int Conf Fracture), Jun. 11, 2023  
<http://www.icf15.org>  
Abstracts due October 1, 2022

Residual Stress Summit (America), TBD  
<https://rssummit.org/>

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*If you're interested in joining any of our subcommittees, especially the Conferences Subcommittee, please email Beth Snipes at [beth.snipes@tec-usa.com](mailto:beth.snipes@tec-usa.com).*

