

June 2025 ICSP15 Initial Technical Program

Tuesday September 23:

9:15-9:45	<i>Plenary Session</i> From Shot Peening Of Historical Pompei Walls To The Redesign Of Roman War Machines: A Reverse Engineering Approach [59]	Professor Mario Guagliano
10:45 – 12:05	<i>Industrial Applications 1</i> Shot Peening of Highly Loaded Compression Springs[7] – Fatigue Life Improvement and Residual Stress of Laser[25] - New Electronic Peening Intensity Sensor– Machine [49]- Integration of E-Strip Technology as a method of Process.....[53] – <i>Surface Engineering 1</i> Effect of Shot Hardness on Peening Intensity – [33] Application of Burnishing Process Expected to Frictional[55] – Enhancing Shot Peening and Blasting Processes with [9]– Roughness Parameters for the Evaluation of Blasted [48]–	<i>Beach</i> Breuer Fuhr Forgues Beach <i>Balan</i> Balan Kobayashi Bouttes Stockel
1:30 – 2:50	<i>Industrial Applications 2</i> Methodologies and Application of the Shot Peen Process [20]– The Use of a Dynamic Imaging System to Characterize [45] Advancing Shot Peening Quality Control with the Shotmeter[22] ... - Evaluation of Peening Intensity with nozzle-mounted sensor [1].... <i>Surface Engineering 2</i> Portable Inspection Technology for Shot Peening as [54] Microstructural Changes and Residual Stress Generation .. [57] Evaluating the Effectiveness of Localized Masking to Prevent ... [24] Comparison of Anti-Fouling Performance of Textured Glass ... [17]	<i>Whalen</i> Hoffman Sheehan Lessard Matsui <i>Watanabe</i> Watanabe Kameyama Harrison Tagaya

Wednesday September 24:

8:30 – 9:50

Residual Stress

Origin and Interpretation of PSI Splitting/Out of Plane Shear .. [40]
Residual Stress Relaxation of SMAT-treated Inconel 718 after ...[2]
Strain Tensor Tomography of Shot-Peened Martensite[42]
Enhancing the fatigue strength of AM materials via [21]

Schmidt

Belassel
Garambois
Modregger
Schubnell

Laser & Alternative Peening 1

Cavitation Abrasive Surface Finishing and Peening (CASF) [5]
Effects of Laser Peening on Fatigue Properties of Welded [32]
Expansion of Laser Peening Application with a High Power [56]
Creating Heterogeneous Surface Gradient Structure via [12]

Sanders

Sanders
Masaki
Sano
Orlani

10:30 – 11:30

Shot Peening of Additive Materials 1

The Effect of Fatigue Strength on shot peened and barrel.....[18]
Modulating Microstructure, Surface Properties and Fatigue ...[37]
Hybrid Additive Manufacturing of Polyactic Acide by Fused.. [38]

Sealy

Nishijima
Oranli
Parial

Laser & Alternative Processing 2

Effect of Shot and Laser Peening on the Very High Cycle [58]....
Assessment of the Ultrasonic Impact Treatment (UIT) ...[14]
Effect of Fine Particle Peening Induced Material Transfer ... [31]

Ferdon

Takahashi
Lepetrel
Iijima

11:45 – 12:45

Lunch Speaker = Cory Padfield

Thursday September 25:

8:30 – 9:50

Fatigue 1

Numerical Assessment of Shot Peening contribution [16]
The impact of Surface Finish Treatments on the Fatigue [39]...
Investigations on the Fatigue Strength of Threads [30]
Consideration of Shot Peening in the IIW guideline for ... [26]

Brown/Padfield

Cortabitarte
Bandini
Hoffmeister
Hensel

Industrial Applications 3

Overcoming the Challenges of Robotic Shot Peening with [6]
Effects of Spring Shape, Residual Stress and Hardness by [29]
Adaptation of Shot Peen Parameters for Gear Geometry [8]
Dry Laser Peening: A New Laser Peening Technique [60]

Breuer

Lim
Shin
Breuer
Sano

10:45 – 11:45

Shot Peening of Additive Materials 2

Improvement of the Fatigue Behavior of AM Scamallooy ... [13]
Comparison of Peening Effect Between AM & Drawing .[19]
Mitigation of Hydrogen Embrittlement in IN 718 produced [4]

Adams

Boby
Soyama
Bianchetti

Fatigue 2

Influence on shot peening and blast polishing for rotating[51]
Effect of Hardness and Residual Stress on Rolling Contact .. [27]
Enhancing High Cycle Fatigue Performance of Electron Beam .[44]

Johnson

Tsuji/Yuji
Narasimhan
Mamidala

1:10 – 2:30

Industrial Applications 4

From Strain to Stress: Stress Map Testing of Almen Strips ...[10]
Structure-processing-mechanical property measurements ... [11]
Investigation of Topography Changes of Blasted Surfaces [47]
Improvement of Lithium-metal electrode ... by shot peening ... [3]

Mort

Stumph
Hintsala
Stöchel
Okumura

Innovative Shot Peened Steel Dynamics

Peening Coverage Effects on Surface Integrity of AM 316 .. [46]

Anisotropic Residual Stress Measurements in AM 316SS Parts ..[43]

Hydrogen Embrittlement in Shot Peened Steel [23]

Bahr?

Chandramouli

Varma

Tien

3:15 – 4:30

Modeling of Industrial Shot Peening

[34] [35] [36] [41]

Feltner