**Title [size 14, centered, bold, times]**

**Main Author1, Author22, Author32 [size 12, centered, bold,times]**

*1Main Author’s affiliation, full address and e-mail [size 12, centered, italic, times]*

*2Further Author affiliations [size 12, centered, italic, times]*

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| --- | --- | --- |
| *Keyword 1* | *Keyword 2* | *Keyword 3* |

**Abstract** The abstract begins here. It should be a summary of your presentation. The abstract should include a description of the problem, the methods used for its solution, and major results and conclusions. If necessary you may include a gray scale Figure or Table. The abstract must not exceed 1 page. [size 12, justified, normal,times]

***Figure 1 -*** *caption for the Figure*

***Please select below the 3 topics that best fit your work, and presentation type.***

***This information will be used to set up the conference program.***

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| Oral presentation  |[ ]  Poster presentation |[ ]

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| --- | --- | --- | --- |
| **1. Fundamentals, physics, and mechanisms** |  | **2. Parameters** |  |
| 1.1 Mechanisms of crack initiation |[ ]  2.1 Influence of microstructure, defects, and notches  |[ ]
| 1.2 Nonpropagating cracks and growth of short and long cracks |[ ]  2.2 Influence of environment and temperature |[ ]
| 1.3 Modeling of fatigue damage and damage accumulation |[ ]  2.3 Effect of mean, residual, and variable stresses |[ ]
| 1.4 Other |[ ]  2.4 Effect of various stress conditions under torsional, multiaxial, and fretting loading |[ ]
|  |  | 2.5 Effect of surface treatment |[ ]
|  |  | 2.6 Other  |[ ]
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| **3. Experimental methods and analyses** |  | **4. Applications of components and structures** |  |
| 5.1 Fatigue testing machines and instrumentations |[ ]  6.1 Statistical and probabilistic modeling and development of life estimation models |[ ]
| 5.2 Prognosis and SHM |[ ]  6.2 Actual structures and their components |[ ]
| 5.3 Nondestructive inspection and analyses |[ ]  6.3 Additive manufactured components |[ ]
| 5.4 Artificial intelligence |[ ]  6.4 Composite materials and structures |[ ]
| 5.5 Other |[ ]  6.5 Other |[ ]
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| **5. Symposia** |  |
| A.Polymer-matrix-composites: Testing facilities, characterization techniques and damage mechanisms |[ ]
| B. Multiaxial HCF and VHCF: Experimental methods, specimens and machines, and damage mechanisms |[ ]
| C. Very High Cycle Fatigue of Additive Manufactured Materials |[ ]
| D. Size effect and/or machine learning in very-high-cycle fatigue |[ ]
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