Registration Fee

Early Bird Registration up to 15 December 2021

Member of DVM	980 EUR
Non-Member	1.070 EUR
Speaker (1 person per contribution)	890 EUR

Registration after 1st April 2022 will be subject to an extra charge of EUR 100,00.

According to § 4, para. 22, German Turnover-Tax Law registration fees are exempt from VAT. For social programmes such as sightseeing fees VAT is not shown according to the § 25 German Turnover-Tax Law (German: UstG).

Payment
All payments have to be made in Euro (€) by credit card or bank transfer. Registration fees have to be paid without deductions. All banking costs have to be paid by the participant. Credit cards (VISA, MasterCard, American Express) will be accepted as well as payment by bank transfer.

Cancellations
All changes or cancellations have to be submitted in writing (e-mail, telefax or airmail). In case of cancellation until 1st April 2022, the conference organiser is allowed to charge 50% of the registration fee plus 25 € service charge. Name substitutions will be accepted at any time at no extra charge. Cancellations received after 1st April 2022 are not refundable. All refunds will be settled after the conference.

Accommodation
Registration fee does not include hotel accommodation. Participants are responsible for booking their accommodation themselves. Recommendations will be soon available at the conference website.

Social Events, Technical Visits
To be announced soon on the conference website: www.lcf9.de

Timeline

31 August 2021	deadline for submission of new abstracts, acknowledgement / update of existing abstracts
September 2021	notification of authors about acceptance of contributions
1st March 2022	start of Early Bird registration
1st April 2022	end of Early Bird registration
1st May 2022	• deadline for submission of full papers (6 pages) and registration including payment (conditional for publication of paper) • final programme
1st June 2022	submission of power point presentations
21 to 23 June 2022	LCF9, Berlin, Germany

Supporting Associations

ASTM International, Committee E08 on Fatigue and Fracture

ESIS European Structural Integrity Society

High Temperature Mechanical Testing Committee

Wissenschaftlicher Arbeitskreis e.V. der Universitätsprofessoren der Werkstoftechnik

Deutsche Gesellschaft für Metallkunde e.V.

Gruppo Italiano Frattura

Société Française de Métallurgie et de Matériaux

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Technische Universität Kaiserslautern, Germany

Prof. Eric Charkaluk
Ecole Polytechnique, Palaiseau France

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Organization

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DVM
German Association for Materials Research and Testing e.V.

LCF9
Ninth International Conference on Low Cycle Fatigue

Announcement and Call for Papers

Conference postponed:

21 to 23 June 2022
Berlin, Germany

Abstract submission deadline:
31 August 2021

Conference Website
www.lcf9.de

Scope

Continuing the successful series of LCF conferences established in 1979, the **Ninth International Conference on Low Cycle Fatigue (LCF9)** will now be held in **Berlin, Germany, from 21-23 June 2022**. With this further postponement, we hope to assure a safe on-site event, enabling fruitful personal discussion as well as various networking opportunities. The permanent and even growing interest of the scientific community in low-cycle fatigue, including thermomechanical fatigue addresses on the one hand a broad range of applications, e.g. in energy technology, transportation, civil engineering, and several other topics. On the other hand, many scientific questions on fundamental deformation and damage mechanisms, influence of multiaxial stresses / strains, creep-fatigue and TMF/HCF interaction as well as crack initiation and growth are investigated with increasing experimental efforts.

As a bridge between fundamental research and application in component and structural design, simulation approaches for cyclic plasticity, crack initiation and growth have made impressive and still continuing progress in the recent decades: FEM-based deformation and life assessment models at different scales, from the microstructure to macroscopic structures, are state-of-the art and under further successful development, especially for reliable design of components undergoing complex thermo-mechanical loadings. Current research activities show that LCF research keeps being a hot topic in material research and in structural integrity considerations as well.

This development is augmented by the current megatrend in digitalization imposing new challenges in data acquisition and storage in appropriate database structures as well as in data processing and usage of cloud computing approaches in fatigue research which is a-priori associated with handling big data volumes in experiment and simulation. The increase in 2D-3D full-field measurements by image-volume correlation associated to high-fidelity FEM simulations are a major challenge in this context.

The objective of LCF9 is to provide a worldwide platform for scientific communication and discussion as well as a point of origin for collaboration of scientists and engineers interested in fundamental aspects and practical application as well as novel challenges in the context of digitalization.

The conference comprises plenary lectures given by outstanding international scientists and contributed oral presentations.

We're looking forward meeting you in Berlin in an, after the "hot phase" of the COVID-19, relaxed atmosphere with many opportunities for personal scientific discussion.

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Call for Papers in the following scientific Topics

- Isothermal LCF, Thermomechanical Fatigue (TMF) and Multiaxial LCF
- Superimposed LCF/HCF & TMF/HCF Loadings and Creep-Fatigue Interaction
- In-situ Fatigue Testing
- Microstructural Aspects of Cyclic Plasticity, Fatigue Damage, Crack Initiation and –Growth
- Influence of Surface, Environment and Protective Coatings
- Advanced Materials and Case Studies
- Novel Experimental Methods and Standardization
- Deformation & Damage Modelling and Simulation Based Life Assessment
- Fatigue Research 4.0: Future Approaches in Data Acquisition, Handling and Processing
- Additive Manufacturing

Registration

Registration exclusively online through the registration access on the conference website www.lcf9.de.
Registration for the conference is mandatory for the presentation of a lecture and the publication of the manuscript in the proceedings.
A confirmation of the registration will be send to the participant by e-mail / pdf.

Proceedings

Citable proceedings will be published online.

Programme

The LCF9 time schedule including session arrangements and abstracts of the contributions will be published on the conference website **www.lcf9.de**.

Exhibition

An accompanying exhibition of material testing systems and services as well as technical literature is planned. For details see www.lcf9.de.

Language

The conference language is English and will be required for abstracts, papers, posters and oral contributions.

Conference Venue

LCF9 will be held in Germany´s capital Berlin.
More information on visitberlin.de

Travelling Information

Berlin can be reached easily by plane, train or by car. More information soon on the conference website www.lcf9.de and on visitberlin.de.

Accommodation

Whether luxurious or inexpensive, Berlin offers its guests a wide selection of suitable hotels. The German capital's diverse hotel landscape features more than 780 establishments offering excellent service and good value for money. More information soon on the conference website www.lcf9.de and on visitberlin.de.

Insurance

The conference organiser cannot be made responsible for any personal accident or loss or damage of private property of participants and accompanying persons. Participants have to arrange for their own insurance cover if considered necessary.

Visa

Under German law responsibility for issuing visas lies with the missions of the Federal Republic of Germany, i.e. its embassies and consulates-general. Local responsibility for issuing the visa lies with the mission responsible for the area in which the applicant has his/her ordinary residence or domicile.

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Understanding Components.