

Faizan Hijazi

CONTACT

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EDUCATION

Ph.D. **Jul 2018 — Present**
IISc Bangalore
Materials Engineering

Thesis Title : Development of Bending Creep as a Viable Creep Testing Method for High Temperature Alloys

The research is aimed to incorporate the bending creep technique in our high temperature industries where creep failures are prevalent. We have introduced "state of the art" techniques like high throughput experimentation using digital image correlation and to save time, material and capital of the industries and hence the nation.

Collaboration: Bharat Heavy Electrical Limited (R&D Hyderabad) and Pratt & Whitney (USA)

M. Tech **July 2016 — July 2018**
IISc Bangalore
Materials Engineering

CGPA: 9.2/10

Thesis Title: Bending Creep: Experimental Investigation of Creep in Beams under Flexure

Research was focused on validation of bending creep as an equivalent to uniaxial creep testing methodology. It was done on pristine and in-service boiler tubes used in re-heater section in a thermal power plant. Some part of work was also done on gas based turbine engine blades.

Collaboration: Bharat Heavy Electricals Limited (R&D Hyderabad) and General Electric (R&D Bangalore)

B. Tech **July 2011 — July 2015**
NIT Srinagar
Metallurgical and Materials Engineering

CGPA 8.973/10

Gold Medallist

Thesis Title: Study of Molybdenum doped Zinc Oxide Semiconductor

Research was focused on enhancing the transmittance of transparent Zinc Oxide used in solar panels by doping them with Molybdenum.

ACHIEVEMENTS

1. Prime Minister's Research Fellowship 2018-2022 for PhD
2. GATE Exam (All India Rank - 28 in Metallurgical Engineering)
3. Gold Medalist in B.Tech in Metallurgical and Materials Engineering at NIT Srinagar (2015)
4. Won runner up prize for second best poster presentation in annual 32nd Students Symposium at IISc Bangalore

PUBLICATIONS

1. **Application of bending creep for examining effect of service conditions on creep response of steel.**
Faizan Hijazi, Jyotirmaya Kar, AHV Pavan, Kulvir Singh, Praveen Kumar, Vikram Jayaram
Materials Science and Engineering A (Oct 2019)

CONFERENCES AND SYMPOSIUMS

1. Poster Presentation in " Conference on High Temperature Structural Materials", IISc Bangalore - Feb 2020
2. Second Prize in 32nd Students Symposium Poster Presentation, Materials Engineering, IISc Bangalore - Jan 2020
3. Presentation in "15th International Conference on Creep and Fracture of Engineering Materials Structures" in Germany - June 2021 (*Abstract Accepted*)

REFERENCES

1. **Prof. Vikram Jayaram**
Chairman, Mechanical Sciences
Department of Materials Engineering
IISc Bangalore
2. **Prof. Praveen Kumar**
Associate Professor
Department of Materials Engineering
IISc Bangalore

INTERESTS

Football, Trekking, Photography, Gadgets, Snooker