

14th International Conference on Fracture (ICF14)

Rhodes, Greece, June 18-23, 2017

Mini-Symposium

Fracture Propagation and Arrest of Gas Pipelines

Chair: Su Xu

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Co-chair: Timothy Weeks

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Arrest of fast ductile fracture in gas pipelines is critical for gas pipeline design, safety and environmental protection. In order to economically design gas pipelines and select materials, a suitable method to predict arrest toughness, and availability of test methods to measure this toughness, are vital to pipe manufacturers, pipeline owners and regulators. The following topics are active R&D areas and are proposed for the mini-symposium covering both experimental and simulation work:

- Fracture propagation toughness characterization (Charpy, drop-weight tear test (DWTT), crack-tip opening angle (CTOA), full-scale burst test, new tests)
- Fracture arrest prediction methodologies (Charpy or DWTT energy based, CTOA based, new approaches)
- Transferability (small-scale and mid-scale specimen results to full-scale pipes)

Please send your expression of interest with a tentative title of your presentation together with the name, affiliation and email address of the corresponding author and the names of co-authors before October 7, 2016 to:

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and/or when the two-page abstracts are submitted through the ICF-14 website (<http://www.icf14.org>) by October 31, 2016, please indicate to this specific mini-symposium.