

ARMA Hydraulic Fracturing Community

As a key to the boom in unconventional oil and gas production, hydraulic fracturing draws a tremendous amount of attention from researchers, practitioners, the general public, environmentalists, and regulators. Recently the American Rock Mechanics Association (ARMA) formed a Hydraulic Fracturing Community (HFC) to encourage interaction among all stakeholders. The mission of the HFC is to

1. Investigate and advance fundamental physics involved in hydraulic fracturing; and,
2. Promote environmentally responsible practice related to hydraulic fracturing.

Led by ARMA's [Technical Committee on Hydraulic Fracturing](#), HFC is a place for those interested in hydraulic fracturing and willing to share their knowledge, theoretical developments, modeling advancements, laboratory findings, or field experience. Since its inauguration in December 2015, the HFC has attracted 185 members from 20 countries. These members represent 48 universities, 10 national laboratories and research institutes, 22 operators from energy industries, and 31 service providers.

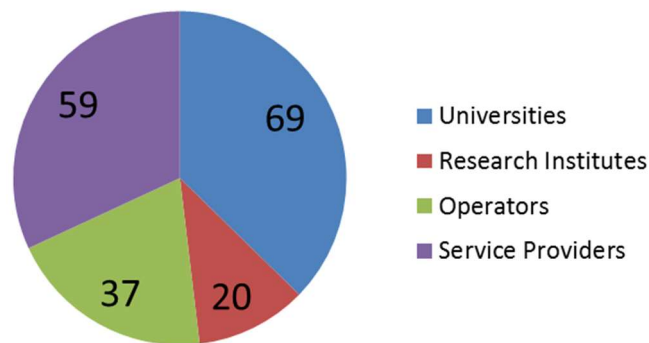


Figure: HFC Member Distributions among Academia and Industries.

The HFC enables members to participate in a variety of activities. For example,

- Develop and participate in sessions related to hydraulic fracturing at ARMA's Annual Symposium. For example, at ARMA's recent 2016 symposium, i.e. the 50th US Rock Mechanics/Geomechanics Symposium, HFC members helped organize seven fracturing sessions and peer-reviewed more than 80 fracturing papers.
- Develop and participate hydraulic fracturing workshops. The first workshop was held on June 24th in Houston, TX with 77 registrants from 55 organizations from six continents. Attendance at the sold-out event was capped to encourage discussion, participation, and candor. It focused on three fracturing processes: initiation, propagation, and closure. The workshop deliveries, including invited talks, discussion highlights, extended abstracts, etc., are made available to all HFC members.
- Participate and receive monthly e-newsletters. The newsletters feature HFC announcements, member activities, technology highlights, career news, etc.

If you are interested in joining the HFC, feel free to contact Gang Han (gang.han@aramcoservices.com).