Written on 01 October 2014 15 minutes of reading

News

Fundamental Research

Renewable energies | Biofuels and e-fuels | Responsible oil and gas | Fuels | Petrochemicals

The fundamental changes in progress, in today's world energy landscape, are driving the need for innovation through the development of **new process, catalysts and formulations**.To step up these developments, we need to overcome some major **scientific hurdles** related to the **identification of descriptors for the design, to the modeling of closely coupled phenomena and to the characterization of materials and fluids for energy**.

It is against this background that IFPEN's researchers are working on:
• **reactivity-structure-composition** relationships in oil feeds and biomass;
• **multiscale, multiphysical modeling** approaches;
• **control of phenomena** present in development tools;
• **experimental equipment and methodologies**.

These developments are helping to reinforce our industrial property and scientific visibility, with the annual publication of around 70 patents and 30 articles in high impact journals.

We hope that you enjoy this issue.

Luc Nougier, Director Process, Design and Modeling Division and **Dominique Humeau**, Director Process Experimentation Division

---

Summary:

 Download the PDF of the letter

Issue 18 of Science@ifpen
01 October 2014

Link to the web page :