AIM OF THE COURSE
After the course, we expect the participant to have obtained a broader knowledge of the basic considerations and concerns in rheological experimentation, data analysis and interpretation. To this end, we will provide handles to develop an awareness of, and acquire the ability to identify common sources of error in experimental preparation, setup and execution. Also, participants should be able to identify the reliability interval in acquired experimental data, and extract material characteristics from such data.

PARTICIPANTS
The course is useful for persons who need to get involved in, or improve on their rheology experiments. An ideal knowledge background consists of the WUR courses FPH-10306, MAT-14803/14903, FPE-20806, PCC-20806, PCC-12303 and/or the equivalent basics in linear algebra, multivariable calculus, differential equations, physics of polymers/fluids and states of matter. A knowledge of Matlab and/or Python is helpful to do some of the (optional) exercises in data analysis.

COURSE DESIGN
Participants will learn how to identify typical material characteristics in rheological data (yield stress, shear thinning, fracture, etc.). The course will touch upon how to combine multiple different rheological techniques/protocols to extend the necessarily limited range of a single protocol (superposition principles, creep/oscillatory test, different size tools). Additionally, we briefly cover how to combine rheological test information with other data types at simultaneous experiments (caber test, flow field data, birefringence, light scattering: DLS, X-ray, Raman).

COURSE LECTURERS & ORGANIZERS
- Dr Joshua Dijksman, Physical chemistry and soft matter, Wageningen University & Research
- Dr Leonard Sagis, Food physics, Wageningen University & Research
- Prof. Peter Fisher, ETH, Zürich (mini-symposium)

COURSE DATES
The 2h course lectures will run on 2, 4, 6, 16, 18 and 20 September in the afternoon. On 19 September there will be a mini-symposium for one full day.

The mini-symposium will feature a keynote lecture from Prof. Peter Fischer. Furthermore we will invite senior scientists from WUR to give talks on their rheology-related work. Participants can submit an abstract and be invited to give a short presentation on their work, where capacity allows.

COURSE FEE, including symposium

<table>
<thead>
<tr>
<th>Category</th>
<th>Fee</th>
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<tbody>
<tr>
<td>VLAG / WU PhD candidates</td>
<td>€ 25</td>
</tr>
<tr>
<td>All other PhD candidates, University staff, Non-profit staff</td>
<td>€ 150</td>
</tr>
<tr>
<td>Participants from the private sector</td>
<td>€ 500</td>
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</tbody>
</table>

1 includes downloadable materials, lunch/tea/coffee during symposium

REGISTRATION AND INFORMATION

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