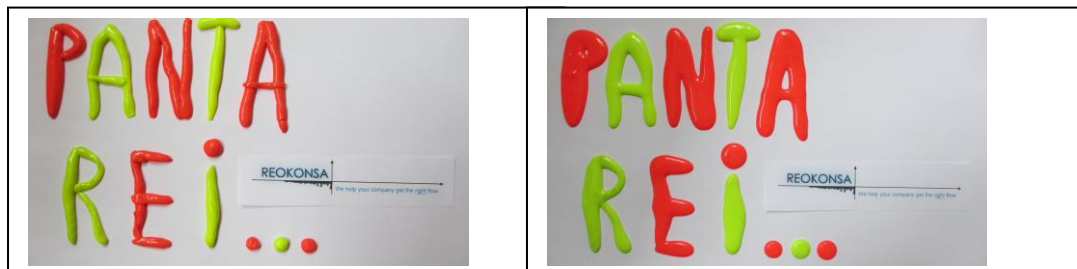


Rheology step 2 –

Continuation training in application of rheological concepts and techniques – viscosity, viscoelasticity and rheological measuring techniques



Fresh

After 12 h

Panta Rei.....

For whom:

This training is addressed to You who have an interest in rheological challenges and measurements and who has basic knowledge in rheology (corresponding to a Basic training in rheology). You work within areas ranging from quality assurance, process control, process design to research and development. The objectives of this training is to give the participants enough knowledge and understanding of all rheological concepts defining rheological behaviour of most industrial applications in order to be able to translate required rheological properties of your material to relevant rheological measurement methods and to be able to correctly interpret the measurement results into true material properties and related equipment design/process requirements/application properties. By this knowledge the participants will get tools to formulate their products to required rheological behaviour.

As a response to participant requests the training is extended from two to three days to create more space for practical examples, questions and group work.

This training is appropriate for me who:

- I have attended a basic training in rheology but I am still not sure about the concepts and how to apply them in determining the rheological properties of my materials
- I understand the rheological concepts but I do not know how to design rheological measurements to study the important rheological properties of my materials
- I regularly work with rheological measurements but I want to learn more about what I am really measuring and how to interpret my measurement results, also to be able to conclude what are measurement errors and what are true material properties
- I regularly work with rheological measurements but I want to learn more about measurement techniques to understand which measurement parameters influence my measurement results
- I want to understand how to design a rheological measuring method to study specific rheological properties in order to be able to communicate with those who perform the practical measurements
- I need to refresh my rheological knowledge
- I want to understand how to formulate my products to get required rheological properties of the product during its lifecycle

Questions to be answered during the training:

- Are there any differences in performing shear stress vs shear rate controlled viscosity measurements?
- How does the selected frequency and amplitude of the measurement effect the viscoelastic properties of my material?
- How do I correctly measure the yield stress of my material?
- How do I study the shear stability of my material, that is, if it rebuilds the structure again after shearing/processing?

- How do I study phase changes in my material?
- How does the selected measurement geometry influence my measurement results?
- How does the measurement parameters influence the measurement results?
- How long time do I need to study my material in order to get representative measurement results?
- Is my material shear thinning or thixotropic?
- Is my material a liquid or a solid?
- What rheological parameter gives me which information about my material?
- How do I design and define a rheological measurement method?
- Which rheological instrument should I use and how does this instrument influence my measurement results?
- How do I translate rheological measurement results into true material properties?

Course leader

Annika Sahlström is a rheology consultant at Reokonsa AB.

Annika has a Master of Science in chemical engineering and more than 30 years of practical, theoretical, consulting and teaching knowledge within most industrial applications. In 1997 Annika was honoured with 'The Rheology Award of the Year' by The Nordic Rheology Society for her skills in teaching understandable rheology, combining theoretic rheology with practical examples and demonstrations to address different learning styles. By now Annika has more than 1000 satisfied clients.

After her graduation at Lund University of Technology Annika worked at Bohlin Reologi AB, a company developing and selling rheological instrumentation. Here Annika came in contact with most industrial applications and rheological challenges and acquired a wide knowledge within rheological measurement techniques and instrumentation. She was also responsible for training of international users.

At other employments Annika has widened her rheological application knowledge. At AAK she combined different measuring techniques to study fat based systems. At Tetra Pak she worked with process design in relation to the installation of filling machines and processing equipment for liquid food products. At Nestlé she worked with development and industrialisation of new food products.

In parallel with her employments Annika has been working as an international rheology consultant helping companies and universities within most industrial applications, understanding and applying rheology in order to efficiently study and steer the rheological properties of their materials, as well as giving general and customer tailor made Basic and Advanced Courses on rheology.

Training schedule

November 8, 9 and 29, 2021.

Registration at 08:45 November 8 and 29. Course ends at 16:00 November 29.

The training is given in English. English documentation. A course certificate is handed over to all participants.

Day 1:

9-12

- Repetition basic rheological concepts, viscous flow properties and viscoelastic properties
- Rheological instrumentation and usability

13-16

- Measurement parameters influencing measurement results
- Design of rheological methods to study specific material properties

Day 2:

9-12

- Cont. Design of rheological methods to study specific material properties
- Interpretation of rheological measurement results and resulting material properties

13-16

- How to use rheological measurement data to formulate new products
- How to use rheological measurement data to solve processing and Quality Control challenges
- Summary and home work

Day 3:

9-15.30

- Designing rheological measuring methods to study specific rheological properties, incl. group work

15.30-16

- Summary and closing of training



e- TRAINING
Nov 8,9,29, 2021

Course details

The training will be given on-line. The participants need access to computer with video and sound. Reokonsa AB will in due time send all information related to this e-training, including training material and test samples.

Course fee

SEK 25 000 or EUR 2 500

VAT will be added for participants from Sweden.

10% reduction of the training fee is given to no 2 and more of participants from the same company attending the same training occasion. 50% fee reduction for all 5+ participants from the same company. 100% fee reduction for all 10+ participants from the same company.

50% fee reduction will be given to all participants that also attended the Rheology step 1 training in 2021.

No refunds will be made for those who do not attend the scheduled course and/or cancel after October 22, 2021.

Training documentation and samples are included in the training fee.



Registration

To register for this training please send an E-mail no later than October 22, 2021 to:

reokonsa@gmail.com

with the following information:

I hereby register for Rheology step 2 – Continuation training in application of rheological concepts and techniques – viscosity, viscoelasticity and rheological measuring techniques

* First name:

* Surname:

* Job Title:

* Company/Institute:

* Address:

* Country:

* Tel no (mobile if applicable):

* E-mail:

* Purchase Order number (if required by your company):

* Invoice address if different from the one above:

* It is OK to be added to Reokonsa AB's address register (*) Y/N:

(*) See Reokonsa AB's web page for our GDPR rules

www.reokonsa.com

Latest registration by October 22, 2021.

In combination with the registration to the training all practical information related to the training will be given.

Questions?

Contact: Annika Sahlström

reokonsa@gmail.com or +46 709787805