



# European Network of Fourier-Transform Ion-Cyclotron-Resonance Mass Spectrometry Centers

*Grant Agreement n° 731077*

## **Deliverable D2.13 – Final report of the different short courses - Joensuu**

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**Duration:** 60 months

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## Document Classification

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Neutral Reviewer	Date	E-mail
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## Document Abstract

This deliverable is the final report of Short Course 9, an event organized and held on 5<sup>th</sup> April 2022 within WP2 – NA- Training, education and networking activities.

The objective of WP2 is to promote education in the field of FT-ICR MS, sharing newly developed state-of-the-art procedures for experiments and data analysis and training qualified and highly skilled FT-ICR specialists. In addition, Short Courses will include a number of social events creating a fruitful platform for beginning international collaborations.

This deliverable explains content and outcome of Short Course 9 (SC9) performed in the framework of the EU\_FT-ICR\_MS project.



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## 1 Introduction

Short Course 9 (SC9) entitled “Complex mixture analysis with FT-ICR MS” was the 9th short course within the EU\_FT-ICR\_MS network. It was held at the Department of Chemistry, University of Eastern Finland, Joensuu (Finland) in the period 19-22 April 2022. The course consisted of tutorial lectures, instrument demos, and social program. The tutorial lectures were given by the scientists of the EU\_FT-ICR\_MS network, namely Carlos Afonso (ROUEN), Mark Barrow (WARW), Carlos Cordeiro (LISB), Maria Elisa Crestoni (ROMA), Edwin DePauw (LIEG), and Christopher R ger (ROST). In addition, an additional lecture was given by Francisco Fernandez Lima from the Florida International University (USA). The instrument demos and hands-on exercises were supervised by Matthias Witt (BRUKER) and the local team at UEF. The short course had 20 accepted participants (9 male, 11 female) from eleven European countries. Seven participants were post-doctoral/senior scientists, and the rest were PhD students/early-stage researchers. The overall feedback for the course was very positive; over 80% of the participants were either “very satisfied” or “satisfied”. The event flyer and the overall evaluation summary are presented below. All the lecture materials are available for public download at the project website <http://eu-fticr-ms.eu/>.

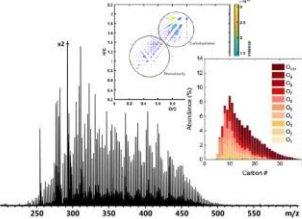




<p><b>EU FT-ICR MS</b> <b>9<sup>th</sup> Short Course</b></p> <p><i><b>Complex mixture analysis with FT-ICR MS</b></i></p>	<p><b>Course overview</b></p> <p><b>Topics</b></p> <ul style="list-style-type: none"> <li>Complex mixture analysis with FT-ICR MS</li> <li>Sample prep, ionization, data acquisition &amp; processing, data visualization, compound identification etc...</li> <li>Metabolomics, foodomics, petroleomics, biofuels, natural organic matter, etc...</li> </ul> <p><b>Content</b></p> <ul style="list-style-type: none"> <li>Tutorial lectures, instrument demos &amp; hands-on exercise on a 12-T FT-ICR instrument</li> <li>See more: <a href="http://eu-fticr-ms.eu">http://eu-fticr-ms.eu</a></li> </ul>	<p><b>Instructors</b></p> <p><i>Carlos Afonso, Mark Barrow, Carlos Cordeiro, Janne J�nis, Edwin De Pauw, Christopher R�ger &amp; Matthias Witt</i></p> <p><b>Applications &amp; info</b> <a href="http://www.eu-fticr-ms.eu">www.eu-fticr-ms.eu</a></p> <p><b>DEADLINE FOR APPLICATIONS:</b> <b>April 5, 2022</b></p> <p>Further enquiries: <a href="mailto:janne.janis@uef.fi">janne.janis@uef.fi</a></p>
<p><b>When?</b> April 19-22, 2022</p>	<p><b>NO PARTICIPATION FEE!</b> Travel, accommodation, meals and social program included!</p> <p>Up to 15 applicants will be selected by the Scientific Committee</p>	  <p><small>This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731077</small></p>
<p><b>Where?</b> University of Eastern Finland Department of Chemistry Joensuu – Finland</p>  <div style="display: flex; justify-content: space-around;">   </div>		

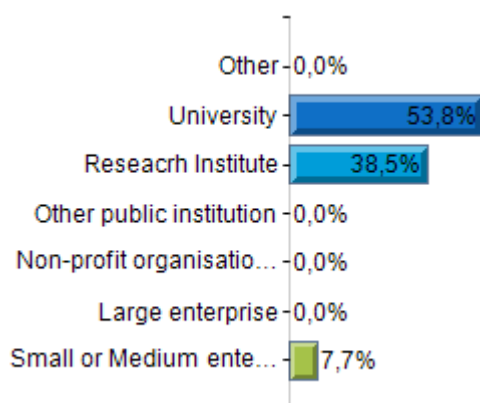
Figure 1: Flyer of SC9

## 2 Final report of SC9

Number of answers: 13

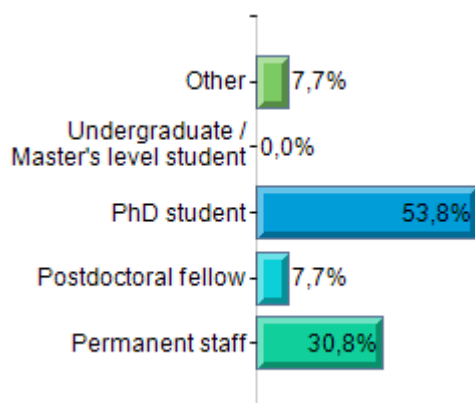
1. In which context are you presently employed or carrying your research?

Response rate: 100.0%



3. What is your current position type?

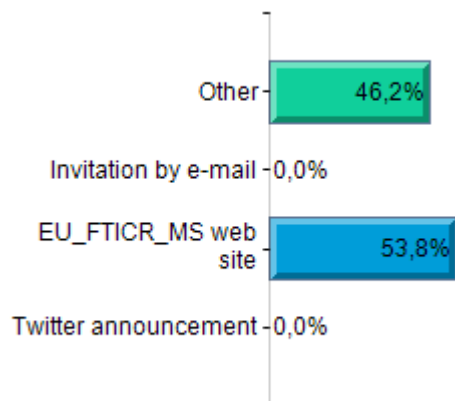
Response rate: 100.0%



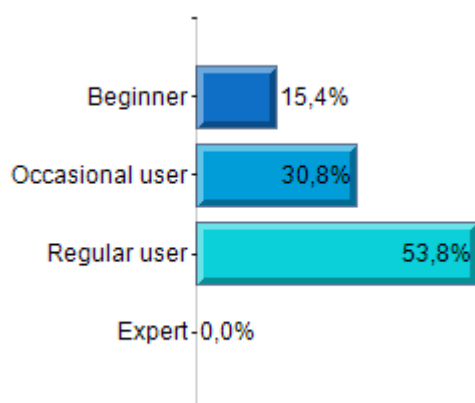
5. By which channels did you come to know about the workshop ?

Response rate: 100.0%

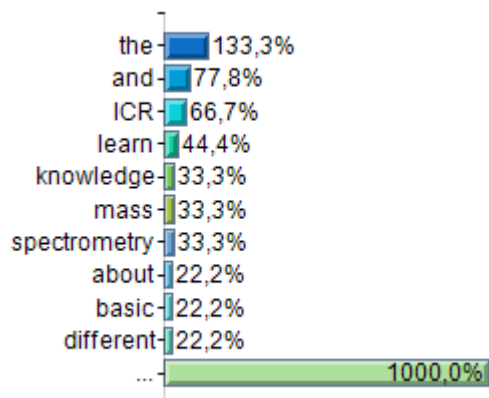




7. How would you rate your level in mass spectrometry when taking this course?  
Response rate: 100.0%

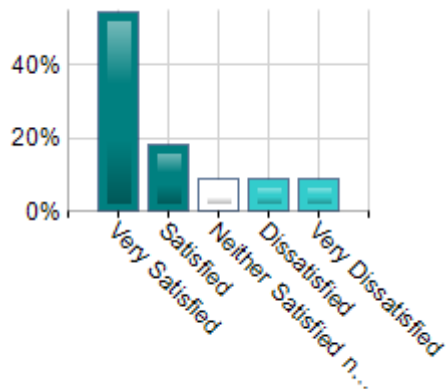


8. What were your expectations from this short course?  
Response rate: 69.2%

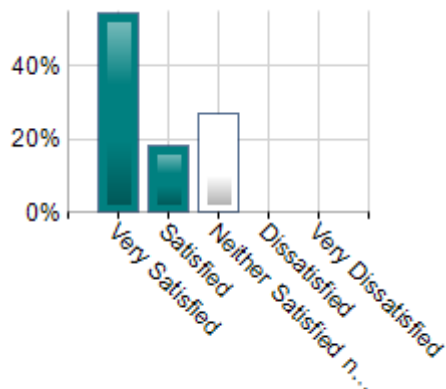


9. Registration process

Response rate: 84.6%  
Mean = 4.00 Median = 5.00 Std deviation = 1.41  
Min = 1.00 Max = 5.00

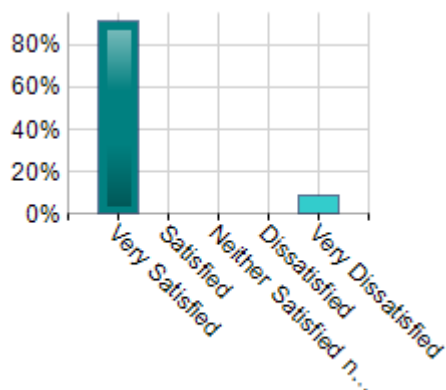


10. Travel to the site  
Response rate: 84.6%  
Mean = 4.27 Median = 5.00 Std deviation = 0.90  
Min = 3.00 Max = 5.00



11. Accomodations  
Response rate: 84.6%  
Mean = 4.64 Median = 5.00 Std deviation = 1.21  
Min = 1.00 Max = 5.00



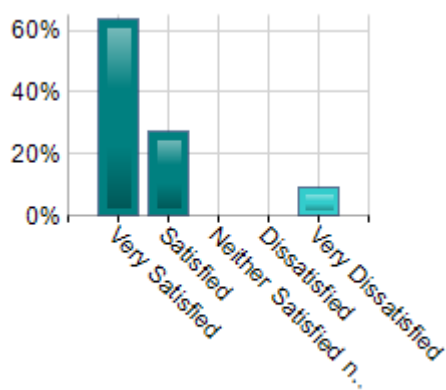


## 12. Access to the campus / laboratory

Response rate: 84.6%

Mean = 4.36 Median = 5.00 Std deviation = 1.21

Min = 1.00 Max = 5.00

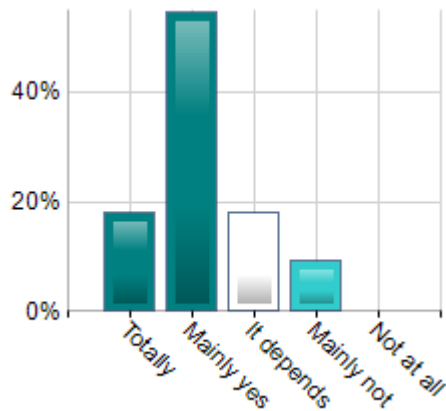


## 14. Was the level of the short courses adapted to your knowledge in mass spectrometry?

Response rate: 84.6%

Mean = 3.82 Median = 4.00 Std deviation = 0.87

Min = 2.00 Max = 5.00

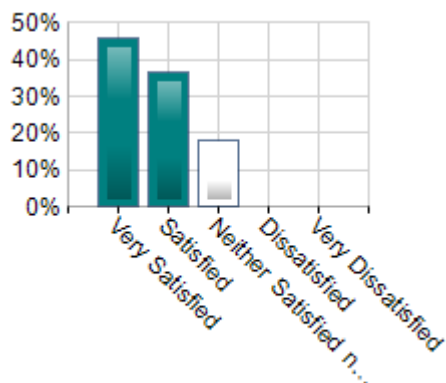


15. What is your satisfaction level for the short course session on a whole?

Response rate: 84.6%

Mean = 4.27 Median = 4.00 Std deviation = 0.79

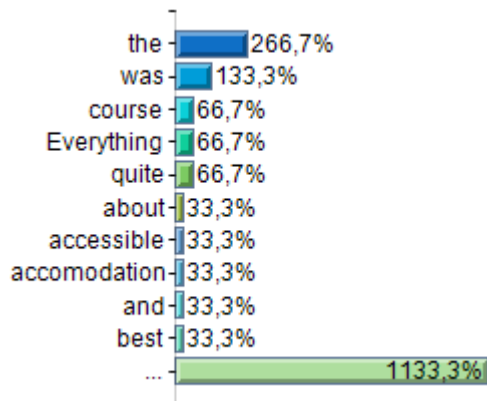
Min = 3.00 Max = 5.00



13. Remarks and comments

Please include here all the general comments on the location / environment

Response rate: 23.1%

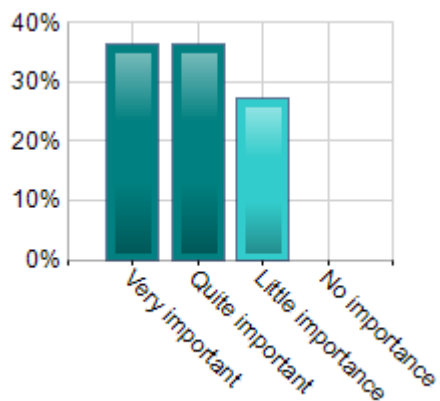


16. Was hands-on practical courses useful in the context of this short course?

Response rate: 84.6%

Mean = 3.09 Median = 3.00 Std deviation = 0.83

Min = 2.00 Max = 4.00



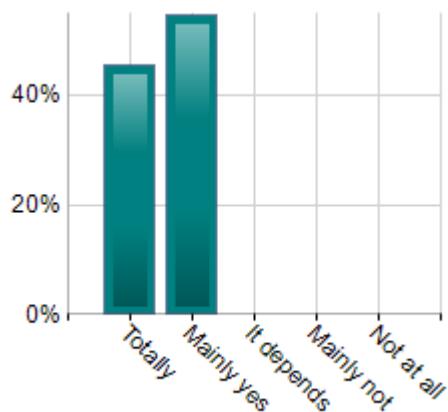
17. The themes that have been covered by the workshop where those as announced?

Response rate: 84.6%

Mean = 4.45 Median = 4.00 Std deviation = 0.52

Min = 4.00 Max = 5.00



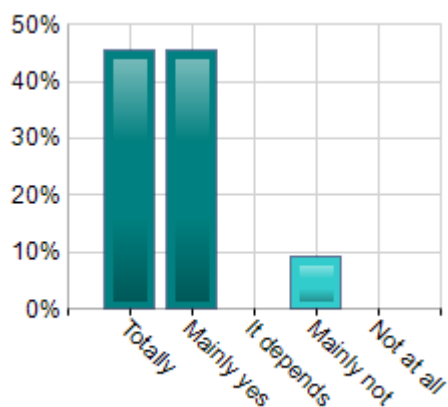


18. Lectures and short talks were adequate ?

Response rate: 84.6%

Mean = 4.27 Median = 4.00 Std deviation = 0.90

Min = 2.00 Max = 5.00

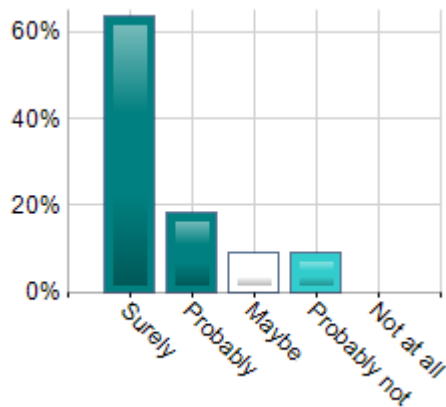


20. Will the content of this session be useful for you in the future?

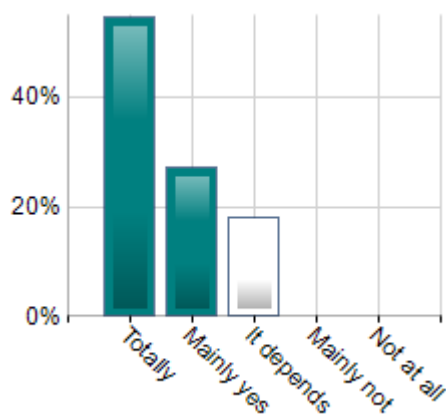
Response rate: 84.6%

Mean = 4.36 Median = 5.00 Std deviation = 1.03

Min = 2.00 Max = 5.00



19. Was this session meeting your expectations?  
 Response rate: 84.6%  
 Mean = 4.36 Median = 5.00 Std deviation = 0.81  
 Min = 3.00 Max = 5.00



21. Do you have anything to suggest or propose for the forthcoming events?  
 Response rate: 7.7%

22. Other comments on the short courses:  
 Response rate: 23.1%