

**ITRF/LhARA Collaboration  
Meeting #6 and ITRF 24  
month review**

**Report of Contributions**

Contribution ID: **1**

Type: **not specified**

# Welcome

*Monday, 2 September 2024 10:30 (10 minutes)*

**Presenter:** Prof. DROMEY, Brendan (Queen's University Belfast)

**Session Classification:** Welcome and introduction

Contribution ID: 2

Type: **not specified**

## **The LhARA Project and meeting introduction**

*Monday, 2 September 2024 10:40 (10 minutes)*

**Presenter:** LONG, Ken (Oxford Uni.)

**Session Classification:** Welcome and introduction

Contribution ID: 3

Type: **not specified**

## Project Management (WP1) status

*Monday, 2 September 2024 10:50 (10 minutes)*

**Presenter:** WHYTE, Colin (University of Strathclyde)

**Session Classification:** Welcome and introduction

Contribution ID: 4

Type: **not specified**

## ITRF update

*Monday, 2 September 2024 11:00 (10 minutes)*

**Presenter:** Dr OWEN, Hywel (STFC)

**Session Classification:** Welcome and introduction

Contribution ID: 5

Type: **not specified**

## **Laser-driven proton and ion source (WP2); status**

*Monday, 2 September 2024 11:10 (25 minutes)*

**Presenters:** DOVER, Nicholas (Imperial College London); GRAY, Ross

**Session Classification:** Welcome and introduction

Contribution ID: 6

Type: **not specified**

## **Proton and ion capture (WP3): status**

*Monday, 2 September 2024 11:35 (25 minutes)*

**Presenter:** Dr ISAAC, Aled (Swansea)

**Session Classification:** Welcome and introduction

Contribution ID: 7

Type: **not specified**

## **Ion-acoustic dose profile measurement (WP4): status**

*Monday, 2 September 2024 12:00 (20 minutes)*

**Presenters:** BAMBER, Jeffrey (Institute of Cancer Research); MAXOUTI, Maria

**Session Classification:** Welcome and introduction

Contribution ID: 8

Type: **not specified**

## **Novel end-station development (WP5): status**

*Monday, 2 September 2024 12:20 (15 minutes)*

**Presenters:** Dr MCLAUCHLAN, Ruth (Imperial College NHS Healthcare Trust); PRICE, Tony (University of Birmingham)

**Session Classification:** Welcome and introduction

Contribution ID: 9

Type: **not specified**

## Design and integration (WP6): status

*Monday, 2 September 2024 12:35 (30 minutes)*

**Presenters:** HILL, Clive (STFC); KUO, Ta-Jen (Imperial College London); SHIELDS, William (Royal Holloway, University of London)

**Session Classification:** Welcome and introduction

Contribution ID: **10**

Type: **not specified**

## **The radiobiology case for LhARA**

*Monday, 2 September 2024 14:00 (25 minutes)*

**Presenter:** Prof. GIACCA, Amato (Oxford/Stanford)

**Session Classification:** Laser-driven ion beams for radiobiology

Contribution ID: 11

Type: **not specified**

## **Challenges and opportunities for radiobiology studies employing laser-driven ion beams**

*Monday, 2 September 2024 14:25 (25 minutes)*

**Presenter:** Prof. BORGHESI, Marco (QUB)

**Session Classification:** Laser-driven ion beams for radiobiology

Contribution ID: 12

Type: **not specified**

## **Automation and optimisation of laser-driven ion accelerators**

*Monday, 2 September 2024 14:50 (25 minutes)*

**Presenter:** Dr STREETER, Matthew (QUB)

**Session Classification:** Laser-driven ion beams for radiobiology

Contribution ID: 13

Type: **not specified**

## **Modelling laser ion beam interactions**

*Monday, 2 September 2024 15:15 (25 minutes)*

**Presenter:** Dr MCMAHON, Stephen (QUB)

**Session Classification:** Laser-driven ion beams for radiobiology

Contribution ID: 14

Type: **not specified**

## **'FLASH' talks from ECRs: Narrowband GeV gold ion acceleration from ultra-thin foils**

*Monday, 2 September 2024 15:40 (15 minutes)*

**Presenter:** Dr MARTIN, Phil (QUB)

**Session Classification:** Laser-driven ion beams for radiobiology

Contribution ID: 15

Type: **not specified**

## Flash radiotherapy research at QUB

*Monday, 2 September 2024 16:30 (30 minutes)*

**Presenter:** Dr BUTTERWORTH, Karl (QUB)

**Session Classification:** Radiobiology and biomedical applications

Contribution ID: **16**

Type: **not specified**

## **Lessons from laser electron studies**

*Monday, 2 September 2024 17:00 (30 minutes)*

**Presenter:** Mr MCANESPIE, Conor (QUB)

**Session Classification:** Radiobiology and biomedical applications

Contribution ID: **19**

Type: **not specified**

## Radiotherapy UK

*Monday, 2 September 2024 18:00 (30 minutes)*

**Presenter:** Ms QUINLAN, Sarah

**Session Classification:** Radiotherapy UK and outreach & engagement discussion

Contribution ID: 20

Type: **not specified**

## Update of Work Package 8

*Monday, 2 September 2024 18:30 (30 minutes)*

**Presenter:** Prof. PRICE, Pat (Imperial)

**Session Classification:** Radiotherapy UK and outreach & engagement discussion

Contribution ID: **21**

Type: **not specified**

## The PoPLaR experiment

*Tuesday, 3 September 2024 10:15 (35 minutes)*

**Presenters:** PARSONS, Jason (University of Birmingham); MCGARRIGLE, Josie (Imperial College London)

Contribution ID: 22

Type: **not specified**

## **'FLASH' talks from ECRs: Evaluating new modalities of radiotherapy**

*Monday, 2 September 2024 17:30 (15 minutes)*

**Presenter:** MCGARRIGLE, Josie (Imperial College London)

**Session Classification:** Radiobiology and biomedical applications

Contribution ID: 23

Type: **not specified**

## **Radiation shielding for ITRF**

*Tuesday, 3 September 2024 11:30 (25 minutes)*

**Presenter:** Dr BEBBINGTON, James

**Session Classification:** ITRF 24 month review

Contribution ID: 24

Type: **not specified**

## Discussion of PA1 milestones and CDR

*Tuesday, 3 September 2024 12:15 (15 minutes)*

**Session Classification:** ITRF 24 month review

Contribution ID: 25

Type: **not specified**

## Feedback on engineering presentation

*Tuesday, 3 September 2024 11:55 (20 minutes)*

**Session Classification:** ITRF 24 month review

Contribution ID: 26

Type: **not specified**

## IB summary

*Tuesday, 3 September 2024 15:00 (10 minutes)*

**Presenter:** GREENSHAW, Tim (University of Liverpool)

**Session Classification:** Closing session

Contribution ID: 27

Type: **not specified**

## Closing remarks

*Tuesday, 3 September 2024 15:10 (1 hour)*

**Presenter:** GIACCA, Amato (Oxford/Stanford)

**Session Classification:** Closing session