



## Dynamic Reaction Monitoring FACILITY

### Costed Access to the University of Bath Dynamic Reaction Monitoring (DReaM) Facility

In this document, the *Integrated, multi-dimensional in-operando Reaction Monitoring Facility for Homogeneous Catalysis Research* (DReaM Facility) will be referred to as "the Facility" and those making proposals to use the Facility will be referred to as "the User".

Users wishing to use Facility time should contact the Facility prior to submission in order to discuss the feasibility of the project.

#### **Proposals**

- 1.1. A call for proposals will be put out twice a year, for the following six months.
- 1.2. Prior to submitting a proposal, we highly recommend you contact the Facility to discuss the feasibility and likely time required for the experiment(s). The User will then fill out an application form which can be submitted by email (preferred) or by post. A separate application form should be used for each project with the same PI.
- 1.3. Applications will contain sufficient background material to set the research in context, a description of the proposed measurements (including which instrumentation will be used) and a justification for the use of the Reaction Monitoring Facility. The justification should include previous relevant analytical results and method development, as well as any intentions for publication. This section will comprise no more than one page.
- 1.4. These will be reviewed and prioritised by the Facility Management Group according to their feasibility, scientific merit and potential impact.
- 1.5. The Facility Advisory Board consists of Dr Anna Codina (Bruker), Prof Matthew Davidson (University of Bath), Dr Ulrich Hintermair (University of Bath), Prof Clark Landis (University of Wisconsin-Madison), Dr John Lowe (University of Bath), Dr Anneke Lubben (University of Bath), Dr Catherine Lyall (University of Bath), Dr Michael Maiwald (Bundesanstalt für Materialforschung und -prüfung (BAM)), Dr David Whittaker (AstraZeneca), Dr Charlotte Willans (University of Leeds) and Dr Antonio Zanotti-Gerosa (Johnson Matthey).
- 1.6. Where known, Users should outline any dates within the six-month period that are unsuitable with as much notice as possible, for ease of time allocation. Justifications should also be provided if the work needs to be scheduled within a certain timeframe. Once the dates of the time allocation have been accepted, this should be considered fixed. The scheduled time allocation is subject to change due to Government or University COVID-19 restrictions which may be imposed at short notice.
- 1.7. Users will be informed of their time allocations within a month of the call for proposals closing.
- 1.8. Each PI may request up to 10 days of Facility time at each call.

#### **Time Allocations**

- 2.1. The Facility Management Group will prioritise external costed access for up to 20% of the Facility's time. The remainder of the time will be reserved for maintenance, method development and feasibility studies, and will be available to University of Bath academics to book for costed access a fortnight in advance. These ratios will be reviewed periodically.

- 2.2. The EPSRC Strategic Equipment Panel required the University of Bath *Integrated, multi-dimensional in-operando Reaction Monitoring Facility for Homogeneous Catalysis Research* (DReaM Facility) to operate in a sustainable fashion. The industrial user will pay an access charge of £600 + VAT per day. The external academic user will pay an access charge of £480 + VAT per day. These amounts will be reviewed periodically.

#### **Included Costs**

- 3.1. "Access" includes the services of an Instrument Specialist and the operating costs of the instrument, such as cryogenes and standard laboratory consumables. Solvents, reagents, catalysts, HPLC columns and other specialised materials will be provided by the User, unless previously agreed. Chemicals may be sent in advance.
- 3.2. Reactions will be set up at the Facility by the User, and users should discuss the specifics of the reaction with an Instrument Specialist prior to use. Reactions can be prepared in the fume hood, or the glovebox where needed.
- 3.3. An Instrument Specialist will typically be available 9 am – 5 pm, Monday to Friday only, and external access will not be scheduled at weekends. It is expected that an Instrument Specialist will be present to assist during the set-up of experiments and be on-hand throughout the scheduled experimental time. Experiments requiring supervision outside of these times should be discussed prior to scheduling.
- 3.4. Travel and accommodation are not included.

#### **Conditions of use**

- 4.1. A Purchase Order number should be provided in advance, so that invoicing can proceed efficiently.
- 4.2. A contract will be provided by the University of Bath and this must be agreed before work can take place at the Facility.
- 4.3. The User is responsible for providing accurate information regarding the reaction conditions, so that the Facility can determine that no safe limits for any instrumentation will be exceeded. If it transpires that the reactions cannot be conducted safely, the experiments will not proceed.
- 4.4. If the researcher(s) using the Facility are not the User making the proposal, this should be outlined in the proposal. Undergraduate students may not attend without their academic supervisor. Ideally, postgraduate researchers would also attend with their academic supervisor, however postgraduate students who attend unaccompanied should be comfortable making decisions about the direction the project will take, based on results obtained.
- 4.5. In addition to the full list of reagents and products that will be submitted with the application form, a COSHH form for all experiments being performed at the facility will be submitted (by email to the Instrument Specialist) at least one week before the allocated experimental time. You are also required to bring a hard copy of the COSHH form with you.
- 4.6. The User is responsible for setting up their reactions and ensuring the preparation areas, fume hood and glovebox are left in an appropriate state after use.
- 4.7. The User agrees to abide by the Health and Safety rules of the University of Bath.
- 4.8. The Facility will retain the right to terminate usage at any point.
- 4.9. The data generated by the Facility is property of the User. The User is responsible for analysis and interpretation of the data generated by the Facility. Under this business model, interpretation of data is not provided by the Facility. Consultancy of this type can be provided under a different arrangement.
- 4.10. The Facility will be acknowledged in any publication arising from an allocation of time. The statement to be used will be provided to you following your Facility time.