

Minutes of the 1st Management Committee Meeting of the COST Action

CA22123 – European Materials Acceleration Center for Energy (EU-MACE)

CSO approval date: 12/05/2023 - COST Action starting and meeting date: 03/10/2023

Onsite meeting in Brussels - COST premises

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1. Agenda and Presentation

The Objectives of the MC1 meeting are:

- Take ownership of the Action challenge
- Networking and community building
- Bring everyone to the same level of knowledge on COST
- Develop Action structure, methodology and planning

The Agenda is available in Annex Agenda, the full presentation given at the meeting is available in Annex Presentation.

2. Participants and Hosting Team

- Science Officer assigned for this Action: Dr Radenka Krsmanovic Whiffen
- Administrative Officer assigned to this Action: Milena Stoyanova
- Action Chair Candidate: Dr Sawako Nakamae

A group picture was taken with the participants (Annex Group photo).

The attendance list is available in Annex Attendance list.

3. COST Action Café and debriefing

For three rounds of the discussion, the participants were invited to join breakout rooms organised by Working Group topics and Management topics listed here after:

List of Working Groups and Management Topics

<i>Task 1 – Expert and MAP lists</i>
<i>Task 2 – Materials Integration</i>
<i>Task 10 – WG membership</i>
<i>Task 5 & 6 (WG4) – Training school & ERASMUS+</i>
<i>Task 9 (WG3) – New Materials</i>

In each breakout room, a volunteer was appointed as Rapporteur. The Management Committee will develop further the ideas by the MC2 meeting.

The summary of the discussions is available in Annex V.

4. Pre-requisites for the Decision Making

The minimum of 2/3 of the Countries present (14 countries represented out of total 20 countries) to reach the quorum was achieved allowing the Management Committee to take formal votes in accordance with the [Annotated Rules](#).

5. Decisions by the Management Committee

I) ELECTION OF THE CHAIR AND VICE-CHAIR AND SELECTION OF THE GRANT HOLDER (SCIENTIFIC REPRESENTATIVE)

Dr Sawako Nakamae was elected Chair

Dr Monica Fabrizio was elected Vice Chair

The MC selected Commissariat à l'Energie Atomique et aux Energies Alternatives as Grant Holder Institution, represented at the MC by Dr Sawako Nakamae.

Leadership Position	Name	Country	YRI (Y/N)	Gender	ITC (Y/N)
Action Chair	Sawako Nakamae	France	N	F	N
Vice Chair	Monica Fabrizio	Italy	N	F	N
Grant Holder Scientific Representative	Sawako Nakamae	France	N	F	N

II) AGREEMENT ON THE ACTION STRUCTURE

The general Action structure proposition (figure below) was presented to, and approved by, the MC members. Here, the horizontal groups are comprised of Grant Award Coordinator and the Science Communication Coordinator and the Transversal Task leaders. The Action Chair (AC) underscores that all envisaged tasks in the Action are transversal to the three technical-scientific WGs (1, 2 & 3), except for T3.0, focussed on selecting new materials and thus embedded in WP3. The list of transversal tasks, corresponding leaders and task team members are found in Section III below. The Action Chair, the Vice Chair and the GHSR propose the working budget plan to the MC.



III) ELECTION OF OTHER LEADERSHIP POSITIONS

The elected leadership positions are listed hereafter.

Leadership Position	Name	Country	YRI (Y/N)	Gender	ITC (Y/N)
WG1 coord.	Helge Stein	Germany	Y	M	N
WG2 coord.	Jaroslav Jasinski	Poland	Y	M	Y
WG3 coord.	Kourosh Malek	Germany	N	M	N
WG4 coord.	David Lacroix	France	N	M	N
WG5 coord.	Ivan Matejak	Belgium	N	M	N
Sci. comm Coord	Ivan Matejak	Belgium	N	M	N
Grant Award Coord	Holger Ihssen	Germany	N	M	N

IV) CORE GROUP AND MANDATES

The Chair clarifies that as necessary, the coordinators of the Working Groups can include the participants who have requested the Management Committee (MC) to join the Core group (transversal task groups). The Chair suggests implementing a criterion of rotation (mandate) of coordinators of Working Groups, proposed by the MC and voted on by the MC at the 12th and 36th month of the Action. After in-depth discussion, the MC approves and votes for the two proposals, along with the initial members of the Task (Core) Group in the table.

Tasks	Name	Country	YRI (Y/N)	Gender	ITC (Y/N)
Expert & MAP list	Helge Stein	Germany	Y	M	N
Materials integration	Rafael Mayo Garcia	Spain	N	M	N
Sustainability	Eleonora Annunziata	Italy	N	F	N
Workshop1	Sawako Nakamae	France	N	F	N
Training school	Theodora Kyratzi	Greece	N	F	Y
ERASMUS+ incub	David Lacroix	France	N	M	N
New Mat selection	Antonio Sanjuan	Spain	Y	M	N

Additional names of Task group participants are proposed (but not members of Core Group). More members are expected to take active role in these tasks.

Tasks	Name
Expert & MAP list	S. Erlinger, J. Vieten, A. Bieberle, M. Rabung, J. Jasinski, D. Ripamonti, F. Balbaud, L. Malerba
Materials integration	K. Malek, H. Stein, J. Pakarinen, J. Vieten
Sustainability	G. Campana, M Fabrizio, A. Sciallo, H.Ihssen
Workshop1	R. Mayo Garcia, M. Fabrizio, D. Lacroix, J. Pakarinen, M. Celino, W.R.
Training school	D. Lacroix, E. Annunziata, G. Miladenovic, H. Stein, K. Malek
ERASMUS+ incub	T. Kyratzi, A. P. Gonçalves
Grant Award	T. Lekeşiz, A. P. Gonçalves
New Mat selection	A. Bieberle, T. Lekeşiz

For the delegation of powers from the MC to Core Group please see “Draft Agreement on internal working methods” in the next session.

V) DISCUSSIONS AND DECISIONS

The Action Chair presents the activity plan and budget proposal for the first Grant Period to the MC, who will review them. The plans are formulated with reference to the financial plans of COST Actions previously held by the CEA.

1st Grant Period Goals

GP1 objectives	Name
Website, logo, SN platforms Experts & MAPs list (to be updated yearly)	1 st Q 2024 2 nd Q 2024
Joint workshop organization (Materials integration)	Jan 2024
New materials selection	3 rd -4 rd Q 2024
Training school topics - planning	4 th Q 2024
Strategies for incorporating SSbD tools into MAPs	4 th Q 2024

1st Grant Period Budget plan proposal (approximate)

Activity type	Amount (€)	Notes
MC meetings	44000	MC2 with WS1, Rome MC3 with WG meetings
Workshop 1 (Mat Integ.) LOS + Invitation	16000	6K LOS + 10K Invitation
WG meeting LOS + Invitation	8000	2K LOS + 6K Invitation
STSM	24000	Max 4k/mission
ITC Conference Grant	4000	
Dissem & Communication	5600	Conference presentations (2k) & OA (3600€)
Web/logo/SNS	6000	(total 12K for 4 years)
OERSA	1000	Bank charges, shipping
subtotal	108600	
FSAC (GH management)	16304	
Total	124904	

Once approved by COST administration, the budget plan will be submitted to the MC for vote.

1st workshop & MC2:

The scheduling of the second MC meeting, taking place on 24th-25th January 2024 at CNR in Rome and jointly organized by EU-MACE and the European Energy Research Alliance-EERA's JP AMPEA and DfE, has been discussed and approved. The Action will send out invites (via e-COST) to MC members by the first week of December 2023. The AO recommends avoiding purchasing tickets until the official invitation has been received.

The proposal to schedule the Training Schools for 2024 in Q3 is deliberated and endorsed.

Travel expense limitation proposal:

To promote extensive participation in the events held by EU-MACE, the approved travel cost reimbursement table is listed below:

Category	Decisions	Notes
Travel expense	Up to 450€ for < 1200km (near-EU countries)	Participants must make effort to reduce the travel cost
	Up to 700€ for > 1200km (far-EU countries)	
	Case-by-case for non-EU countries	
Daily allowance	max 1 night before and 1 night after the event attendance	Applies to all travels

AC/GHSR informs the MC members that in addition to the COST-Action rules, GHI's internal eligibility rules apply in order to receive reimbursements; i.e., the presentation of invoices/receipts is required for all expenses.

Draft Agreement on internal working methods:

The delegation of power from the MC to the Core group has been voted and approved for following activities.

Activity	Decisions	Delegation
Action participation	Approve applications to WG membership.	Action Chair (+ Core Group if needed)
	Selection criteria.	
Grants (STSMs, ITC CGs, VM)	To agree on the evaluation and selection criteria.	Grant Awarding Coordinator (+Core Group)
	To agree on the evaluation committee composition (if any).	
	To issue calls for Grants.	
	To pre-select eligible candidates.	
	To organize the evaluation and ranking of applications.	
	To evaluate the received applications against the agreed evaluation criteria.	
	Approve the applications and decide on the amount of each grant.	
Organising Events (Meetings, Workshops, Training Schools...)	Decide on invitees and list of reimbursed participants in meetings and trainers in the TS.	Core Group supported by the Local Organiser
	Decide on the final program (e.g. talks, posters).	
	To decide on logistics of the venue, schedule, and social events of the respective meeting/training school, respecting the allocated budget for LOS (Local Organiser Support).	
Administrative and budget related decisions	To reallocate unspent budget (<10.000 eur) in activities included in the WBP or new.	Core Group
	Cancel invitations not answered in the period agreed by the MC (suggested 15 days).	Action Chair - Grant Holder Manager

VI) AOB

Following items are presented as the next steps of the Action:

- Budget finalization
- Task 10: WG applicant examination, decision, notification: by January 3, 2024
- Task 2 & 4 Workshop: 1st meeting with EERA JPs (January 24-25, 2024)
- Task 7 (Dissemination/comm): website/logo/SN
- Task 1 core group (Exp & MAP list): to follow the recommendations from the COST Action café summary (see Annex V)
- Task 9 (New materials): to follow the recommendations from the COST Action café summary (see Annex V)
- Task 5 & 3 (Sustainability & Training school): to be discussed through online Task meetings
- Tasks 6 & 8 (ERASMUS, Grant Award): to follow the recommendations from the COST Action café summary (see Annex V) and to be discussed at MC2

At 4:30 pm, the kick-off meeting concludes.

Minutes prepared by:

- *Action Science Officer*
- *Action Chair*
- *Action Vice-Chair*

ANNEXES

I. Agenda

CA22123 MC1 meeting, 03/10/2023, Brussels

Hosting team: Radenka Krsmanovic Whiffen (Science Officer), Milena Stoyanova (Administrative Officer), Sawako Nakamae (Action Chair Candidate)

Estimated time	Session	Who Roles to be assigned pre-meeting
(30 minutes before start)	Welcome coffee for participants Check room set up + projection	<i>Prepare mentally</i>
09:30	Start of the meeting	
(5 min)	Emergency + lunch instructions	<i>Reception team (Teresa or Flavya)</i>
(5 min)	Welcome and Frame	<i>Introduction by the hosting team</i>
09:40-10:00 h (20 min)	Getting to know each other: <ul style="list-style-type: none"> COST general slides Ice breaker (questions YES/NO) Discussion in small groups on the contribution to the Action (3-5 people for 5 minutes) 	SO/AO
10:00-10:30h (30 min)	COST presentation <ul style="list-style-type: none"> 20 minutes + Q&A 	SO/AO
10:30-11:00h (30 min)	Action Chair candidate presentation <ul style="list-style-type: none"> 20 minutes + Q&A 	Action Chair Candidate
11:00h	Group photo and Coffee Break (20 min)	
11:20-12:30h (70 min)	COST Action Café-breakout discussions (60 minutes) including 3 rounds of 20 minutes and Q&A (10 min) <ul style="list-style-type: none"> WGs 1-X Communication Grant awarding process 	SO
12:30-13:15h (45 min)	COST Action Café (debriefing)	SO, Rapporteurs
13:15	Lunch break (60 min)	
14:15-14:45 (30 min)	Quorum and Election of mandatory leadership positions	AO and SO
14:45-15:15h (30 min)	MC Discussion & Decisions – part 1	Action Chair
15:15	Break (15 min)	
15:30-16:30h (60 min)	MC Discussion & Decisions – part 2	Action Chair
16:35h	Closing by check-out	Action Chair

II. Presentation

Presentations are provided as attachments.

III. Group photo



IV. Attendance list

MEETING ATTENDANCE LIST OF (CA22123 1ST MANAGEMENT COMMITTEE MEETING - 03/10/2023)

The attendance list provides the names of the participants who confirmed attendance via their personal e-COST invitation link.

Meeting Title: CA22123 1st Management Committee meeting	
Meeting Reference: E-COST-MEETING-CA22123-031023-8476b6d7	Action Number: N.A.
Meeting Administrator: N.A.	E-mail: milena.stoyanova@cost.eu

Nr	Participant	Country	Attended
1	Bieberle-Hütter, Anja a.bieberle@diffen.nl	NL	Yes
2	Dimitrov, Petar dipetar@outlook.com	MK	Yes
3	Edinger, Stefan stefan.edinger@ait.ac.at	AT	Yes
4	FABRIZIO, MONICA monica.fabrizio@cnr.it	IT	Yes
5	Galanakis, Iosif galanakis@upatras.gr	EL	Yes
6	Hodulova, Erika erika.hodulova@savba.sk	SK	Yes
7	Ihssen, Holger holger.ihssen@helmholtz.de	DE	Yes
8	Jasinski, Jaroslaw Jaroslaw.Jasinski@ncbj.gov.pl	PL	Yes
9	Karakasidis, Theodoros thikarak@uth.gr	EL	Yes
10	Krsmanovic Whiffen, Radenka radenka.whiffen@cost.eu	XR	Yes

Nr	Participant	Country	Attended
11	Kurajica, Stanislav stankok@fkit.hr	HR	Yes
12	Lacroix, David david.lacroix@univ-lorraine.fr	FR	Yes
13	Laikhtman, Alex alex@hit.ac.il	IL	Yes
14	Malek, Kourosh k.malek@fz-juelich.de	DE	Yes
15	Matejak, Ivan i.matejak@eera-set.eu	BE	Yes
16	Mladenovic, Goran gmilenovic@mas.bg.ac.rs	RS	Yes
17	nakamae, sawako sawako.nakamae@cea.fr	FR	Yes
18	Pakarinen, Janne janne.pakarinen@vtt.fi	FI	Yes
19	Peñas Sanjuán, Antonio apenas@ujaen.es	ES	Yes
20	Pereira Gonçalves, António apg@ctn.tecnico.ulisboa.pt	PT	Yes
21	Stoyanova, Milena milena.stoyanova@cost.eu	XE	Yes
22	Tatarko, Peter peter.tatarko@savba.sk	SK	Yes
23	Zabinski, Piotr zabinski@agh.edu.pl	DE	Yes

This information is collected for the purpose of checking eligibility for reimbursement of your expenses under the COST Annotated-Rules-for-COST-Actions-Level-C and, when the meeting takes place in COST premises, for safety purposes in compliance with our legal obligations under Belgian law. It will be kept for the duration of COST audit obligations as mentioned in the privacy notice for e-COST. It won't be transferred to any third party except in case of use for safety purposes where it will be transferred to the landlord of the premises and emergency services.

Country Codes: Albania (AL), Austria (AT), Belgium (BE), Bosnia and Herzegovina (BA), Bulgaria (BG), Croatia (HR), Cyprus (CY), Czech Republic (CZ), Denmark (DK), Estonia (EE), Finland (FI), France (FR), Germany (DE), Greece (EL), Hungary (HU), Iceland (IS), Ireland (IE), Israel (IL), Italy (IT), Latvia (LV), Lithuania (LT), Luxembourg (LU), Malta (MT), Montenegro (ME), The Netherlands (NL), the North Republic of Macedonia (MK), Norway (NO), Poland (PL), Portugal (PT), The Republic of Moldova (MD), Romania (RO), Serbia (RS), Slovakia (SK), Slovenia (SI), Spain (ES), Sweden (SE), Switzerland (CH), Turkey (TR), United Kingdom (UK).

V. Breakout Room Discussions

Breakroom 1

Action Number: CA22123
Room Title: EXPERT & MAP LIST / TASK 1
Rapporteur(s): JAROSLAW JASINSKI
Meeting Participants interested in contributing to the topic: <i>At least half of present people (do not take the names on the board)</i>
<p>What is our main goal?</p> <ol style="list-style-type: none"> 1. IDENTIFICATION OF MAPs (BY RESEARCH TOPIC, BY INFRASTRUCTURE...INTERNATIONAL / REGIONAL / INSTITUTIONAL) 2. IDENTIFICATION OF INTERNATIONAL / NATIONAL PROGRAMMES (SCIENTIFIC PROJECTS, R&D PROJECTS, CONSORTIA...) 3. TRACK THE RESEARCH ENTITIES (LABS, UNIVERSITIES, R&D ORGANISATIONS...) 4. TRACK THE INDUSTRIAL COMPANIES AND POTENTIAL PARTNERS 5. OVERVIEW ABOUT EXPERIMENTAL MAPs AND MODELING MAPs
<p>How can we achieve it?</p> <ol style="list-style-type: none"> 1. SEARCHING DATABASES WITH ON-GOING AND PAST PROJECTS 2. USE THE NETWORK OF OTHER COST PARTICIPANTS 3. SHARE INFORMATION ABOUT COST ACTION ON CONFERENCES, SEMINARS, WORKSHOPS, B2B AND B2S MEETINGS WITH INDUSTRY 4. SPREAD THE COST INFO TO ASSOCIATIONS, CLUSTERS 5. ORGANIZING OF THE INTERVIEWS, PRESS RELEASES...
<p>Which resources do we need?</p> <p><i>(e.g. budget, use of networking tools, different expertise etc.)</i></p> <ol style="list-style-type: none"> 1. DISSEMINATION TEAM (FROM EACH WG, DIFFERENT COUNTRIES) 2. PRESENCE IN WEB (WEBSITE), SOCIALS (LINKEDIN, FB etc.), FLYERS WITH MAIN INFORMATION ON COST ACTION 3. SETTING IDENTIFICATION TOOL OF EXPERTS ON ENERGY SYSTEMS, PEROVSKITES, COMPLEX ALLOYS, NEW MATERIALS SET IN COST ACTION 4. ON-GOING PROJECTS DATABASE 5. OFFERS FOR THE INDUSTRY

What are the next steps?

1. PREPARATION OF STANDARD GUIDE ON GETTING INFORMATION
2. AGENDA OF THE ACTIONS IN T1 (EXECUTIVE)
3. DEFINE THE NAMES FOR MAPs
4. CONTACT WITH MAPs COORDINATORS AND RESEARCH TEAMS

Breakroom 2

Action Number: 22123

Room Title: Materials Integration

Rapporteur(s): Kourosh Malek

Meeting Participants interested in contributing to the topic:

At least half of present people (do not take the names on the board)

What is our main goal?

Several points were discussed as the main goals for this working group. We discussed different factors the accelerate knowledge generation for materials properties and descriptors for integration into a functioning energy device, followed by in-device testing.

- Understanding and obtaining a common ground around the concept of integration to accelerate energy materials development (identify application criteria-cost-performance-circularity)
- Harmonize integration of methods and tools in characterisation, physics- and data-based modelling, and simulation, and thereby establish essential infrastructure to pave the way towards rapid and efficient discovery, tailor-made design, and integration of innovative materials, all done to achieve high technology readiness of these materials in the green energy sector
- The main (proposed) goal was to identify priorities in relation to material classes, methods and tools accelerate materials integration for energy applications

How can we achieve it?

Breakthrough innovation requires a high level of integration from scale-to-scale by advancing the sub-component materials level and from simple model systems to a full device, and from lab-to-lab by connecting the data flows and analytics, and component testing including standardization of quality testing protocols. Several key areas were identified:

- Database for state-of-the-art materials for a given application fields (in consultation with industry)
- High level technical target for materials in a given application field (beyond state of the art – industry)
- Standardization of quality testing protocols for materials, components, and device testing
- Engaging industry to identify integration barriers for new materials

- Understand key criteria and properties that drive materials compatibilities at cee/component and devices
- Identify key integration descriptors at the materials and component levels before integration to devices.
- Common understanding of required data infrastructure and application of novel concept in AI/ML and data management / data science (ontologies, meta-data management and harmonization) for accelerating materials to device integration

Which resources do we need?

The items identified in the previous section are application specific and may vary depending on field of applications. To achieve those items, several resources (data, expert, tools) are required:

- HQP (general knowledge of integration for agnostic cases independent of technology and application as well as specialized knowledge for specific applications)
- A common data framework for materials properties, meta-data standards and ontologies to connect descriptors at the materials and component to application requirements at the device and system levels
- Expert inputs to assist defining key descriptors from scale-to-scale and lab-to-lab
- Practical (data/AI) tools and framework to improve understanding and accelerate integration requirements

What are the next steps?

We identified that the first step would be to prioritize the area of focus in view of the most relevant application field. The objective is to primarily focus on standardization of materials quality testing protocols and framework to identify key integration descriptors.

- **Workshop for prioritize applications:** As such, a workshop is planned during the next ACTION meeting to evaluate which application field (e.g. by involving industry and other expert in battery materials, electrocatalysis for H₂ production or CO₂ reduction, new materials for energy storage) has the highest readiness for demonstrating integration descriptors and test-protocol standardization. The learnings from the selected flagship application field will be utilized to explore same for other fields of interest.

Breakroom 3

Action Number: CA 22123

Room Title: WG Application selection procedure

Rapporteur(s): Holger Ihssen, Sawako Nakamae

Meeting Participants interested in contributing to the topic:

At least half of present people (do not take the names on the board)

What is our main goal?

- To ensure the pertinence of participants' expertise and expectation to the Action goals

How can we achieve it?

- EU-MACE will accept, in principle, all applicants in order to reach the widest possible community for disseminating the systemic research approach for advanced materials and integration built around the novel Self-Driving Laboratory; i.e., MAPs

<ul style="list-style-type: none"> - Participants will seek and encourage the materials and device development experts from industries and the researchers on sustainability, both of which are identified as the research sectors currently under-represented among the Action participants.
<p>Which resources do we need?</p> <ul style="list-style-type: none"> - Dissemination of our Action through, for example, workshops and conference presentations by the Action participants
<p>What are the next steps?</p> <ul style="list-style-type: none"> - Development of Action Web page clearly stating the Action objectives - Creation of accounts on social media outlets

Breakroom 4

Action Number: CA22123
Room Title: Training schools & Erasmus+ Mundus
Rapporteur(s): David LACROIX
<p>Meeting Participants interested in contributing to the topic:</p> <p><i>At least half of present people (do not take the names on the board)</i></p>
<p>What is our main goal?</p> <p>2 distinct points to address: i) Training schools (TS), ii) incubation of ERASMUS+ Mundus master diploma.</p> <p>About TS, several questions emerge:</p> <ul style="list-style-type: none"> • Which audience, which format? • Which periodicity? • Which scientific theme or field of research? • Which implementation methods? • What will be the methodology to propose, as soon as possible, a working plan about TS organisation? <p>About ERASMUS+, more complex at this stage to set a plan as the "ERASMUS+Mundus Master Degree (E+MMD) is not well-known tool by participants outside of the "academic" field. But some ideas come to organize our thoughts.</p>
<p>How can we achieve it?</p> <p>About TS, suggestions proposed by the panel:</p> <ul style="list-style-type: none"> • TS should be inclusive and attract both young researchers (PhD students, postdocs, even second-year Masters students) and more "senior" researchers who may also come to seek information or methods on a research topic. • Diversity of audiences means that we need to consider TS in a format that not only provides a general understanding of the basics, but also enables us to delve more deeply into the more challenging issues of "real-life case studies". • An option might be to alternate "general" mornings for everyone, with more "specialized" workshops in the afternoons. • Finding excellent speakers both from academic or industrial side • The subjects of these TS are still to be defined. To be discussed with the WGs dealing with materials/experimental-digital tools/applications.

- Choosing an attractive location (sea/mountain) to mobilize colleagues.
- Associating this event with a symposium; a view shared by all, as there is the practical side of a single trip and the less practical side of the extended duration of the trip.

About E+MMD, first suggestions are:

- Identify the universities involved in the COST action (they are the only ones authorized to run a Master's program)
- See if there are any bilateral agreements between some of these universities (to facilitate exchanges),
- Identify degrees for which there could be added value in developing an ERASMUS+Mundus within the scope of EU-MACE.
- Still keeping open the idea of other related training actions such as: Marie Curie Actions (MSCA) for PhD and classical ERASMUS mobilities for Master internships.

Which resources do we need?

There remains the question of implementation of TS; on this subject it is proposed to gather as soon as possible a "bureau" dedicated to "training issue" which will:

- Lead the reflection,
- Make the link with the other WG of the COST Action
- Will be able to propose speakers, an institution to welcome the event, etc.
- To make it works smoothly an agenda of this board is needed also.

What are the next steps?

It is proposed that this "board" come up with proposals at the next meeting in Rome at the end of January. Before, Chair and vice-chair help is also need to identify the "training" board members.

Breakroom 5

Action Number: CA 22123

Room Title: New Materials Selection

Rapporteur(s): Anja BIEBERLE, Antonio SANJUAN

Meeting Participants interested in contributing to the topic:

At least half of present people (do not take the names on the board)

What is our main goal?

- Decide which other material or class of material to focus on next to the materials classes in WG 1 and WG 2
- Define criteria regarding sustainability, stability, abundance, (easy) processibility, EU advantage, reproducibility, EU availability, cost
- Brainstorm about possible new materials: structural materials other than oxides in WG 1; ionic liquids;
- Composites; MOF; solid state battery materials; mesoporous materials, metamaterials; organic perovskites, interfaces

How can we achieve it?

- We need a critical mass of WG members for a new materials class
- Talk to industry
- Include processing methods in the discussion and how they fit to MAP idea

- Combine new materials with new approaches for materials synthesis and characterization
→ operando tools; and with modelling, thermodynamics and kinetics
- Include European platforms (such as: Batteries Europe Platform,)
- Assessment of European Roadmaps concerning materials and energy applications, as well as, EU legislation
-

Which resources do we need?

- Workshops and round tables, incl. industry
- STSM
- Virtual classrooms
- Analysis of publication records → identify hot topics
- Overview about industrial players
- Lab standards
-

What are the next steps?

- Decide on new materials classes that EU-MACE wants to focus on
- Scout for community of new materials which are not part of EU-MACE at this moment → extent EU-MACE community
- Check running Horizon projects on MAPs to identify community
- Communicate MAP idea to industry