

# 2021 TE-MPE Group Annual Meeting

F. Rodriguez-Mateos and Section Leaders



[www.cern.ch](http://www.cern.ch)



9th December 2021

# Outline

- **Welcome and general news (F. Rodriguez Mateos) 10'**
- **2021 Highlights CB (D. Wollmann) 10'**
- **2021 Highlights EP (R. Denz) 10'**
- **2021 Highlights MI ( J. Uythoven) 10'**
- **2021 Highlights MP (M. Pojer) 10'**
- **2021 Highlights PE (A. Verweij) 10'**
- **2021 Highlights SF (M. Bajko / S. Yammine) 10'**
- **Outlook and closing remarks (F. Rodriguez Mateos) 5'**
- **Questions 15'**

# Our Mandate

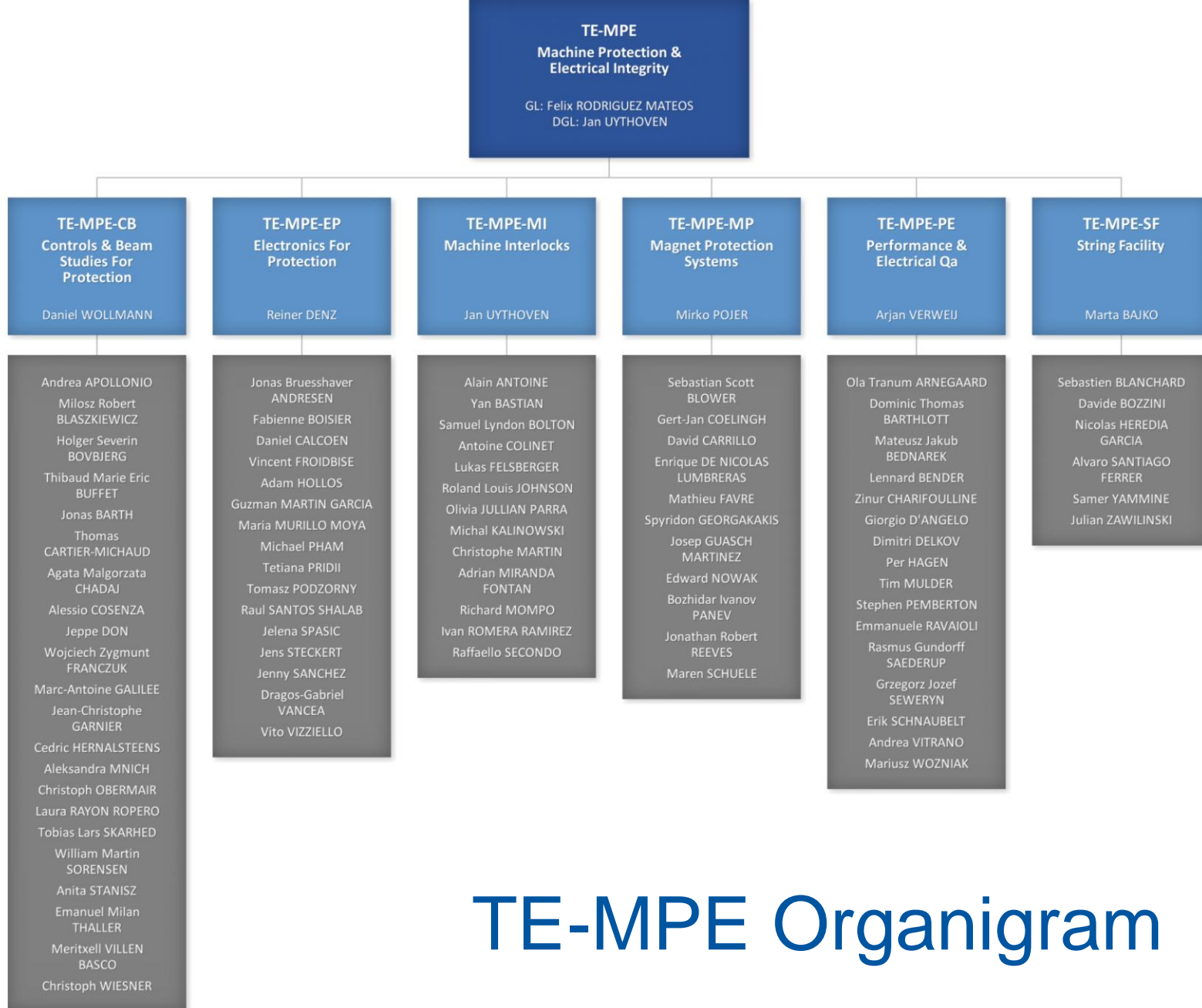
The MPE group is part of CERN's Technology Department (TE) and is responsible for the magnet protection systems and machine interlocks for the CERN accelerator complex. The MPE group supports the operation of CERN's accelerators by developing, maintaining and operating **state-of-the art hardware and software technologies for magnet circuit protection, diagnostics and interlock systems** for present and future accelerators, magnet test facilities and several CERN hosted experiments.

The group furthermore includes a section devoted to the technical coordination role in the domain of activities related to the integration, installation, commissioning and operation of the **Inner Triplet String Facility** within the framework of the High Luminosity LHC (HL-LHC) Project.

The MPE group is involved in several transversal projects across the accelerator sector, providing expertise in a wide range of areas including **machine protection, electronics and electrical engineering, reliability engineering, controls and software technologies as well as the operation and performance analysis of superconducting magnet circuits.**

<https://mpe.web.cern.ch>



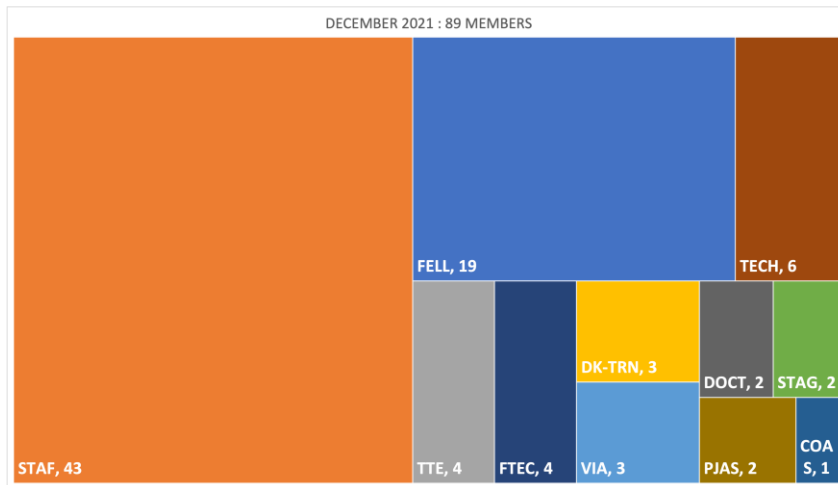


# TE-MPE Organigram

# MPE Members - today

- Diversity is a core value underpinning our Code of Conduct.
- CERN promotes diversity, inclusion and equality at all levels.

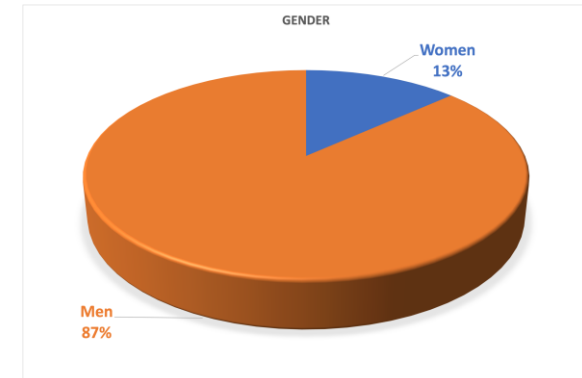
## Status



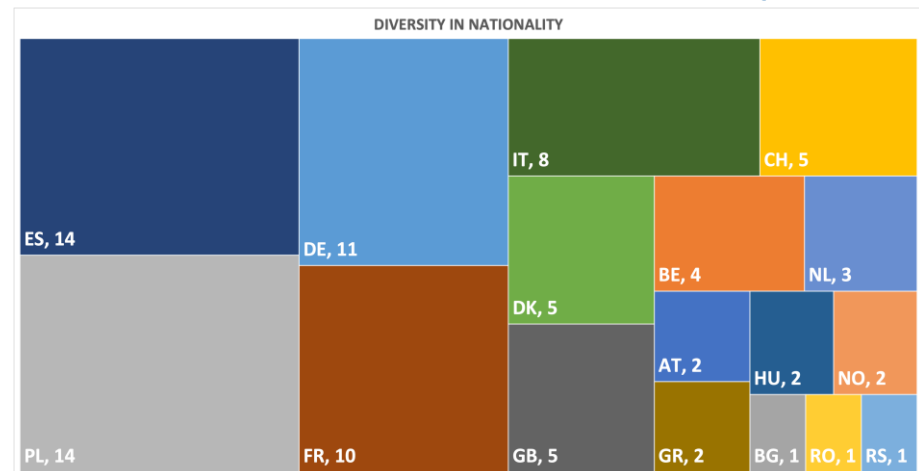
December 2021 : 89 members  
January 2021 : 108 members

17 nationalities

## Gender



## Nationality





# Arrivals in MPE 2021



## Staff

## Fellow, PhD, TTE

BAJKO Marta	TE-MPE-SF
BOZZINI Davide	TE-MPE-SF
BLANCHARD Sebastien	TE-MPE-SF
WOZNIAK Mariusz	TE-MPE-PE
YAMMINE Samer	TE-MPE-SF
COLINET Antoine	TE-MPE-MI

OBERMAIR Christoph	TE-MPE-CB	PRIDII Tetiana	TE-MPE-EP
BLOWER Sebastian	TE-MPE-MP	SANTIAGO FERRER Alvaro	TE-MPE-SF
BOLTON Samuel	TE-MPE-MI	VITRANO Andrea	TE-MPE-PE
DE NICOLAS LUMBRERAS Enrique	TE-MPE-MP	ZAWILINSKI Julian	TE-MPE-SF
HOLLOS Adam Eric	TE-MPE-EP	PHAM Michael	TE-MPE-EP
MNICH Aleksandra	TE-MPE-CB	SCHUELE Maren	TE-MPE-MP

## Students and trainees

BOVBJERG Holger Severin	TE-MPE-CB	COSENZA Alessio	TE-MPE-CB
SORENSEN William	TE-MPE-CB	JULLIAN PARRA Olivia	TE-MPE-MI
DON Jeppe	TE-MPE-CB	BENDER Lennard	TE-MPE-PE
HEREDIA GARCIA Nicolas	TE-MPE-SF	BLASZKIEWICZ Milosz Robert	TE-MPE-CB
MARTIN GARCIA Guzman	TE-MPE-EP	BARTHLOTT Dominic	TE-MPE-PE
MURILLO MOYA Maria	TE-MPE-EP	CHADAJ Agata Malgorzata	TE-MPE-CB
ARNEGAARD Ola Trandum	TE-MPE-PE	VILLEN BASCO Meritxell	TE-MPE-CB

# Departures 2021

ACHAQ Salma	JANIK Grzegorz Michael	LASSEN Jannik	PHAM Minh Nhat	TOBUSCH Florian
ADAMEK Jaroslaw Michal	JANITSCHKE Marvin	LEON LOPEZ Miguel	PROSZKOWIEC Andrzej Franciszek	TOCH Zbigniew
BOGDALI Pawel Edward	JURKIEWICZ Potr Wladyslaw	LUNGAARD Mathias Mardahl	PUSHKAREV Alexander	TUORMAA Oskari Kristian
BORTOT Lorenzo	KEDZIERSKI Piotr	MACIEJEWSKI Michal	RICHTMANN Lea Caterina	TURZANSKI Maciej Krzystf
BRANKA Pawel Jozef	KOLTHOFF Inken Marei	MARTINEZ HERNANDEZ Unai	RUSZEL Marek Mieczyslaw	VANIK Peter
CHRISTENSEN Magnus	KONDRATEV Kirill	MICHNIUK Szymon	SAEDERUP Rasmus Gundorff	WACHAL Przemyslaw
DUTKIEWICZ Erazm Maria	KOTARBA Andrzej Karol	MROCZEK Mariusz Piotr	SCHNAUBELT Erik Michael	WITKOWSKI Karol
FISCHL Lorenz	KREMNEV Artem	OSMAN Kamil Abdi	SIKORA Franciszek Piotr	WOJAS Damian Lukasz
FRANCZUK Wojciech Zygmunt	KRUSE-HANSEN Jens	OSTROWICZ Wacław Maciej	SKOCZEN Andrzej Jozef	ZACHARA Anna Maria
HEPP Nora Uta Elena	LANNOY Christophe	OVSSENKO Mikhail	STUGLIK Aleksandra Ewa	
HULPHERS Johan	LASKO Pawel Karol	PEDERSEN Anne Kathrine Holk	SZKLARZ Patrycja	

We thank all for the valuable contributions

# With warm thanks to our efficient collaborators



IHEP, Protvino, Russia



HNINP, Krakow, Poland



Институт ядерной физики  
имени Г. И. Будкера СО РАН

BINP, Novosibirsk, Russia



AGH, Krakow, Poland

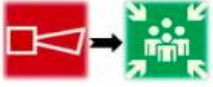
... this list is not exhaustive, we thank them all




# Safety is a top priority and key responsibility of everyone working in TE-MPE

**SAFETY BULLETIN 2013-1**  
August 2013


## When the alarm rings, you must leave!




**What happened**  
A fire alarm went off recently in one of the CERN restaurants at lunchtime. When the fire brigade arrived on the scene, they observed that hardly anyone had actually evacuated the building.



**The consequences**  
Luckily, on this occasion the alarm was not the result of a serious incident. Yet, if a fire had really broken out, thick, toxic fumes would have rapidly spread throughout the premises. This would have represented a major risk for anyone who remained inside the building or was slow to react to the alarm, and could have led to fatalities.



**What you must do**  
When an evacuation alarm goes off:  
> I must leave the premises immediately and follow the evacuation signs;  
> I must encourage anybody else present to do the same;  
> I must make my way to the nearest muster point;  
> I must await instructions from the Fire Brigade.  
Moreover, if you have not already done so, familiarise yourself with the evacuation plans in your building to locate the emergency exits and muster points. If there aren't any plans or if you have any questions, please get in touch with your TSO.  
Remember that only the Fire Brigade are authorised to assess the level of seriousness of an alarm.



Safety Bulletin published by the HSE Unit  
N° 0010 - 10/07/13

Need more information on safety issues?  
Contact us at: [hse@cern.ch](mailto:hse@cern.ch) or [+41 76 300 00 00](tel:+41763000000)  
or contact your Departmental Safety Officer (DSO): <http://www.cern.ch>

**SAFETY BULLETIN 2013-2**  
October 2013

## Protect your head!




**What happened**  
Several accidents have been reported in recent months due to people not wearing protective head-gear in areas where safety helmets are compulsory or in work places where the obligation to wear a safety helmet presents difficulties. The victims sustained impacts to the head from protruding elements (shiny angles, steel plates, etc.) when standing up or moving around in their work place.



**The consequences**  
The injuries associated with these accidents include cuts, lacerations and bruises to the scalp, some requiring stitches.



**What you must do**  
When working in or passing through areas with safety helmets is compulsory, you must wear CERN stores, compliant with at least one of the specifications for industrial safety helmets: EN 12492 or EN 12493.

Should the wearing of the safety helmet be physically very painful, the wearing of bump caps is permitted. Safety helmets therefore remain compulsory.

\* Bump caps are not suitable in most CERN areas: check with your DSO.

Need more information on safety issues?  
Contact us at: [hse@cern.ch](mailto:hse@cern.ch) or [+41 76 300 00 00](tel:+41763000000)  
or contact your Departmental Safety Officer (DSO): <http://www.cern.ch>

**SAFETY BULLETIN 2013-3**  
November 2013

## Drive with caution!



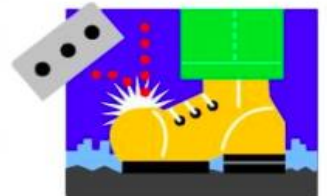
**What happened**  
Many instances of dangerous driving by members of the CERN personnel or contractors' personnel have been observed on the routes to / from the Meyrin and Prévessin sites. There have been several accidents and near-misses this year. The latest incident involved a vehicle being driven on the wrong side of the road, forcing drivers traveling in the opposite direction to brake sharply.



**The consequences**  
Fortunately nobody was injured in the latest incident as the other drivers were able to brake in time and the driver of the vehicle concerned veered back onto the right side of the road at the last moment, thereby avoiding a head-on collision, which would have had very serious consequences.



## Accident ? Call the Fire Brigade !



## Aware and Responsible

Delphine Letant-Delrieux TE DSO

<http://hse.cern/covid-19-information>



COVID level 3 (Orange) measures can be found at this url:

<https://hse.cern/alert-level/general-level-3-orange>

Absence Management Table

<https://cds.cern.ch/record/2712801/files/AbsenceManagement-Table.pdf>

**Please continue to strictly follow all  
established  
Covid-19 rules**

# Safety Roles in TE-MPE

Group Safety Link Person (SLP) : Daniel Calcoen

Work and Service Supervisor (WSS) :  
Daniel Calcoen and Giorgio D'Angelo (LHC)  
Richard Momo (Injectors)

Territorial Safety Officer (TSO) :

	TSO	Deputy TSO
30 /TE- Office and laboratory building	<a href="#">PEMBERTON,Stephen</a>	<a href="#">GRENU,Brigitte</a>
30.1 /TE- Office and laboratory building	<a href="#">PEMBERTON,Stephen</a>	<a href="#">GRENU,Brigitte</a>
272 /TE- WRB1 - BATIMENT DE STOCKAGE...	<a href="#">SEWERYN,Grzegorz Jozef</a>	<a href="#">CALCOEN,Daniel</a>
281 /TE-BATIMENT AUXILIAIRE	<a href="#">FROIDBISE, Vincent</a>	<a href="#">D'ANGELO,Giorgio</a>
622 /TE- Electronics workshop	<a href="#">D'ANGELO,Giorgio</a>	<a href="#">CALCOEN,Daniel</a>

Safety roles for the IT String have been defined and will become soon official

Radiation Safety Support Officer (RSSO) : Vito Vizziello

Mechanical Workshop Supervisors (WS) : Mirko Pojer and Mathieu Favre

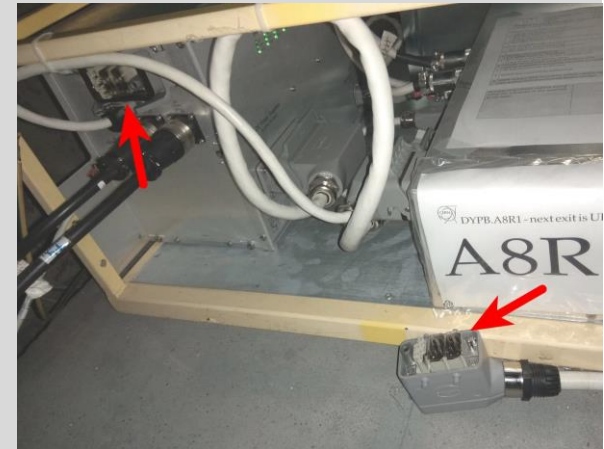
Signatories for "attestation de consignations" and "autorisation de travail":  
Richard Momo (Injectors), Giorgio D'Angelo (LHC)

# Safety Numbers – 2021 in MPE

- During 2021 TE-MPE has accumulated a considerable number of absence days related to off-site accidents occurred outside CERN (road, sports)

According to registered “A2 code” Internal Accident Reports:

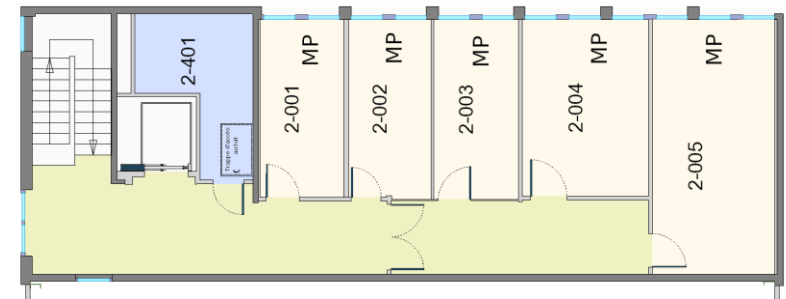
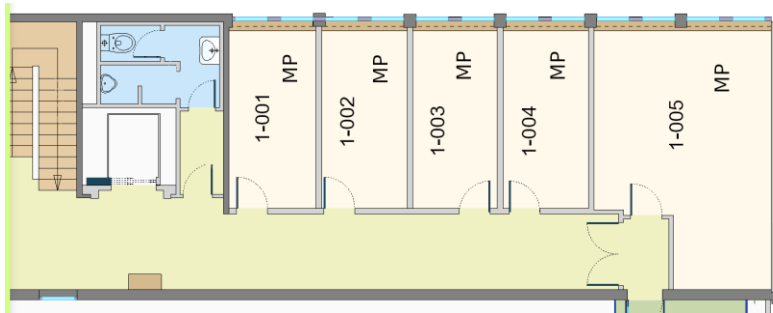
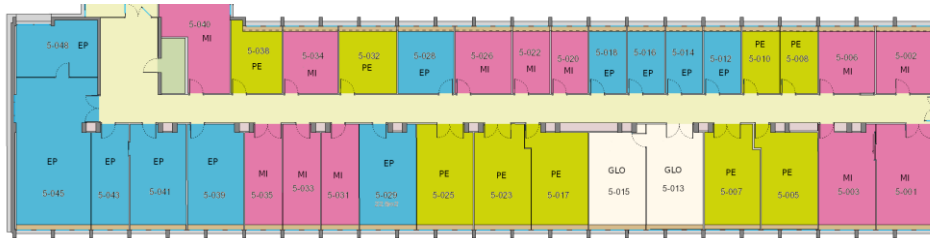
- Number of on-site accidents : 1  
The person was medically checked and had no injuries
- Number of near misses : 0
- Number of off-site accidents : 6



# Group Meetings in 2021

MEETING	DAY/FREQ	MATTERS	Chair	Secretary	Done in 2021
Section Leaders Meeting (SLM)	Monday 2:30pm Biweekly	Managerial and partly technical (urgent matters)	FRM	CC	20
Technical Section Leaders Meeting – Tech SLM	Tuesday 10am (as needed)	Technical (mainly related to operation)	JU	CC	9
Steering Board (SB)	Tuesday 10am Biweekly	Projects follow-up and relevant technical matters	JU	CC	13
MPE-TM (Technical Meeting)	Thursday 2 pm Biweekly	Larger audience, informative	DW		17

# Office reorganization



We have not yet completed the removal nor got to our final destination

Sincere thanks to the persons who have been affected by the reorganisation of offices: you have been very cooperative and this is much appreciated!!!

Special thanks to Brigitte and Daniel C. for the follow up and impressive organisation of work



# The entire hall in Bdg 272 is under TE-MPE responsibility



This is a very important milestone

Thanks to all who made this possible

We have to ramp up to full exploitation according to the Group standards

... And maintain it in adequate condition



# TE-MPE Sections Highlights 2021