

# Topics for discussion

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WWFPC01, CERN, Geneva, 23-24 June 2015

# WWFPC 2016 meeting date

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Yearly meeting hosted at CERN

22-23 June 2016

**1 hour per talk including discussion !**

2 days Tuesday-Wednesday (+ visit 0.5 day)

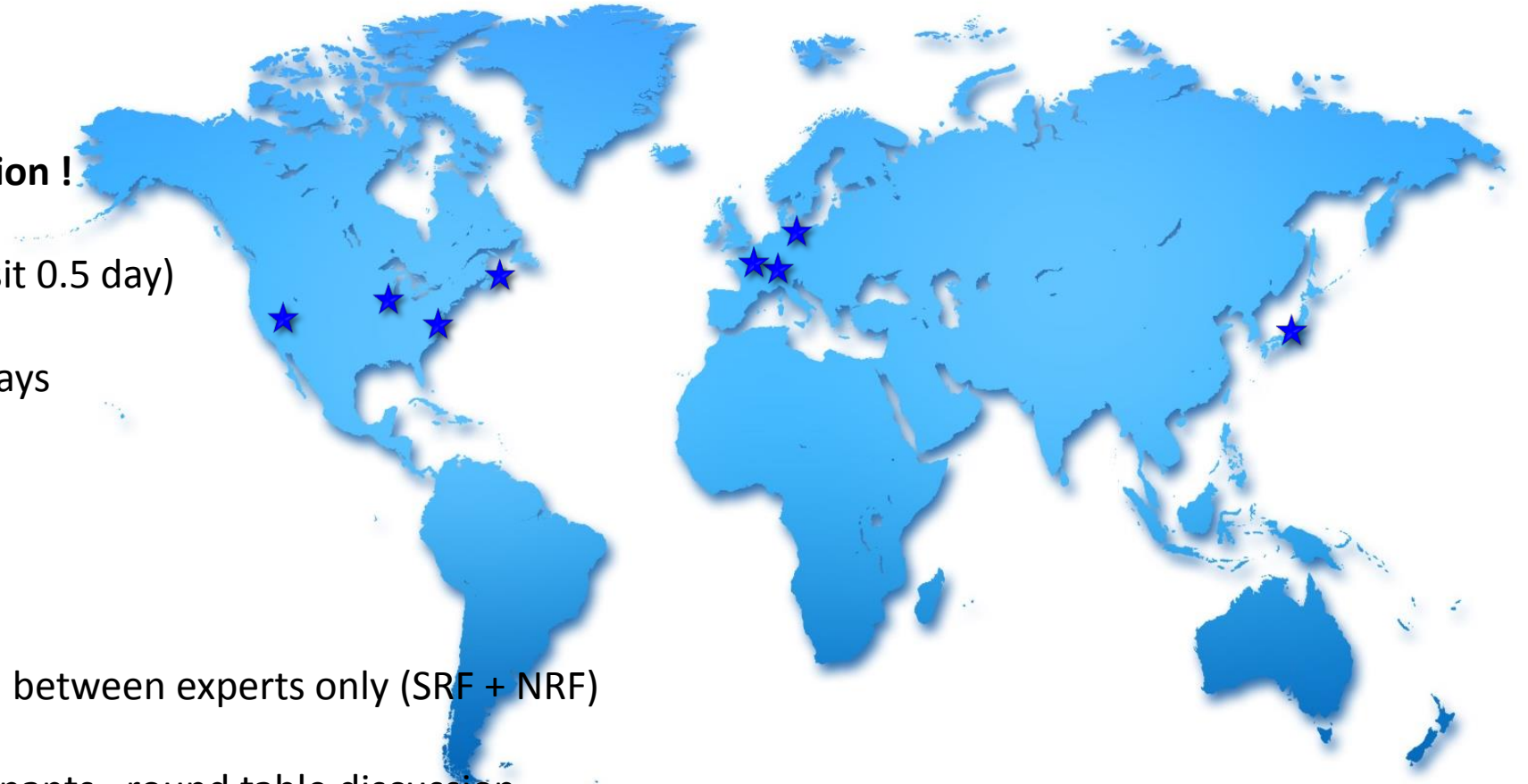
Mandatory to be present the 2 days

No remote participation

Discussion oriented

Exchange of detailed information between experts only (SRF + NRF)

On invitation only, max 20 participants , round table discussion



# List of invitees for WWFPC 2016 meeting

Lab	Name
CERN	Eric Montesinos
KEK	Eiji Kako
DESY	Wolf-Dietrich Möller
CEA	Guillaume Devanz
BNL	Sergey Belomestnykh
SLAC	Chris Adolphsen
ORNL	Mark Champion
JLAB	Robert Rimmer
FNAL	Sergey Kazakov
Cornell	Vadim Veshcherevich
IPNO	Sebastien Bousson
LAL	Walid Kaabi
IHEP	China
IBS	Korea
ANL	Mike Kelly



Lab	Name
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# Topics for discussion

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## Design

- maximum power per coupler ?
- multi coupler per cavity ?

## Construction

- choice of material and of techniques of fabrication
- Coating
- Is superficial oxidation/discoloration a problem ? (\*\*\*) identification Walid)

## Ceramic

- Ceramic ?
- Sputtering: TiOx – TiN ? Control of the process ? Qualification (\*\*\*) Sergio/Fritz)
- New ceramic without treatment ? (KEK/CERN)
- Gray deposit ? How to qualify ? (\*\*\*) Sergio/Fritz – Wolf-Dietrich - Walid)

## Series production

- fabrication, cleaning, handling and assembly
- Series production by industrials: modification of the processes, industrial alternative proposals, ...

# Topics for discussion

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## Cleaning and assembly

- What clean room is really needed ?
- For FPC alone?
- For FPC onto cavity?
- How to test the effect of cleanliness ?
- Definition of a cleanliness test programme ?

## Specific constraints for operation reasons

- NO brazing-welding-soldering between liquid coolant and vacuum (proven EBW should not be on the list)
- NO liquid cooled couplers
- Do you have the same constraints ?
- Do you have statistics linked to these constraints ?

# Topics for discussion

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## Tests

- RF test boxes
- Amplifiers for tests
- Prototype processes versus series processes
- What margin do we need between pre-series and series ?
- Do we need vacuum gauge for series production FPC ?

## Diagnostics

- R&D and prototyping
- Operation in accelerators

## Statistics

- Couplers operated in accelerators
- Degradation of characteristic over time of operation
- How to share these information ?

# World Wide Program ?

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How to organise it ?

Who can do what ?

Who want to do what ?