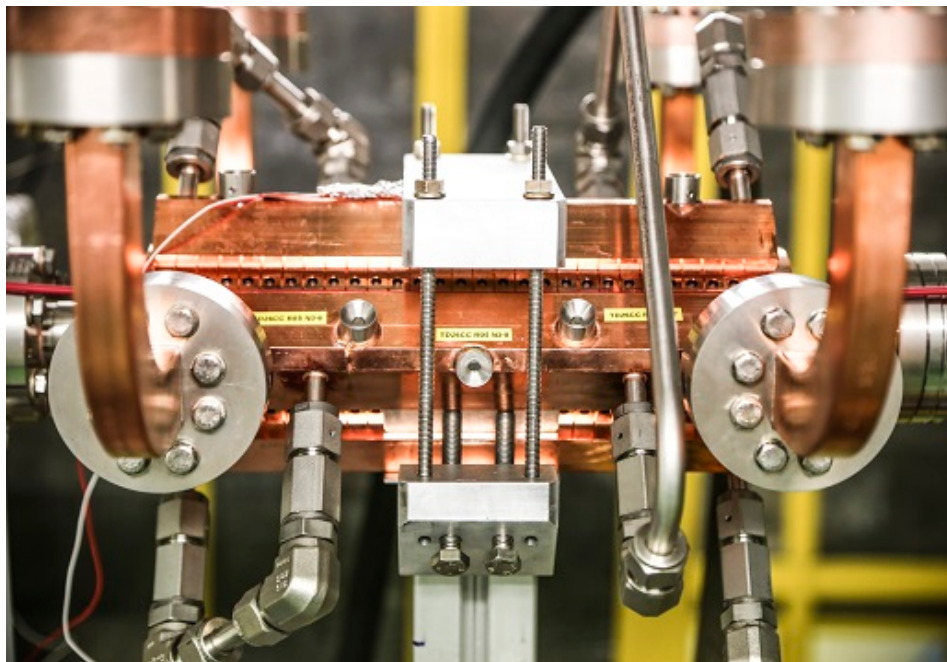


# **International Workshop on Breakdown Science and High Gradient Technology (HG2017)**



## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## **Status of RF Lab in Valencia - Daniel Esperante (IFIC)**

**Session Classification:** 1

Contribution ID: 2

Type: **not specified**

## **Welcome and opening remarks - Juan Fuster / José Bernabéu (IFIC)**

*Tuesday 13 June 2017 09:00 (10 minutes)*

**Primary author:** FUSTER VERDÚ , Juan (IFIC-Valencia (ES))

**Presenter:** FUSTER VERDÚ , Juan (IFIC-Valencia (ES))

Contribution ID: 3

Type: **not specified**

**Test stands for breakdown studies on beam-driven  
and RF-driven structures - Jay Hirshfield (Yale  
University and Omega-P R&D, Inc).**

**Session Classification:** 1

Contribution ID: 4

Type: **not specified**

## **Status of SXFEL and DCLS project in China - Qiang Gu (Shanghai institute of Applied Physics)**

**Session Classification:** 1

Contribution ID: 5

Type: **not specified**

## **CLIC accelerator - Angeles Faus-Golfe (LAL)**

**Session Classification:** 1

Contribution ID: 6

Type: **not specified**

## **Xbox intro - Nuria Catalan (CERN)**

**Session Classification:** 1

Contribution ID: 7

Type: **not specified**

## **Tsinghua plans -tbc**

**Session Classification:** 1



Contribution ID: 8

Type: **not specified**

## **C-band acceleration RF system for SXFEL at SINAP - Wencheng Fang (Shanghai Institute of Applied Physics)**

**Session Classification:** 1

Contribution ID: 9

Type: **not specified**

## **AWA report- Chunguang Jing (Euclid Techlabs)**

**Session Classification:** 1

Contribution ID: **10**

Type: **not specified**

## **High gradient S-band at Elettra - Chunguang Jing (Euclid Techlabs)**

**Session Classification:** 1

Contribution ID: 11

Type: **not specified**

## **Xbox intro - Nuria Catalan (CERN)**

**Session Classification:** PROJECTS AND FACILITIES

Contribution ID: 12

Type: **not specified**

## **Tsinghua plans -tbc**

**Session Classification:** PROJECTS AND FACILITIES

Contribution ID: 13

Type: **not specified**

## **C-band acceleration RF system for SXFEL at SINAP - Wencheng Fang (Shanghai Institute of Applied Physics)**

**Session Classification:** PROJECTS AND FACILITIES

Contribution ID: 14

Type: **not specified**

## **AWA report- Chunguang Jing (Euclid Techlabs)**

**Session Classification:** PROJECTS AND FACILITIES

Contribution ID: 15

Type: **not specified**

## **High gradient S-band at Elettra -tbc**

**Session Classification:** PROJECTS AND FACILITIES



Contribution ID: **16**

Type: **not specified**

**test 1**

Contribution ID: 17

Type: **not specified**

## **CLIC Accelerator and its implication in HG R&D - Angeles Faus-Golfe (LAL)**

*Tuesday 13 June 2017 09:10 (25 minutes)*

**Primary author:** BLANCH, cesar

**Presenter:** FAUS-GOLFE, Angeles (Laboartoire de l'Accelérateur Lineaire)

Contribution ID: **18**

Type: **not specified**

## **Xbox status and test program - Nuria Catalan Lasheras (CERN)**

*Tuesday 13 June 2017 09:35 (25 minutes)*

**Presenter:** CATALAN LASHERAS, Nuria (CERN)

Contribution ID: 19

Type: **not specified**

## AWA report- Chunguang Jing (Euclid Techlabs)

*Tuesday 13 June 2017 10:00 (25 minutes)*

**Presenter:** JING, Chunguang (Euclid Techlabs / Argonne National Laboratory)

Contribution ID: 20

Type: **not specified**

## Status of RF Lab in Valencia - Daniel Esperante (IFIC)

*Tuesday 13 June 2017 10:25 (25 minutes)*

**Primary author:** ESPERANTE PEREIRA, Daniel (Univ. of Valencia and CSIC (ES))

**Presenter:** ESPERANTE PEREIRA, Daniel (Univ. of Valencia and CSIC (ES))

Contribution ID: 21

Type: **not specified**

## **Tsinghua High-power X-band test stand Plans - Wei Gai /Jiaru Shi (Tsinghua University)**

*Tuesday 13 June 2017 11:30 (25 minutes)*

**Presenter:** SHI, Jiaru

Contribution ID: 22

Type: **not specified**

## **Compact Thompson X-ray source at Tsinghua University - Jiaru Shi (Tsinghua University)**

*Tuesday 13 June 2017 11:55 (25 minutes)*

**Presenter:** SHI, Jiaru (Tsinghua University)

Contribution ID: 23

Type: **not specified**

## **Status of SXFEL and DCLS project in China - Qiang Gu (Shanghai institute of Applied Physics)**

*Tuesday 13 June 2017 12:20 (25 minutes)*

**Presenter:** GU, qiang (sinap)



Contribution ID: 24

Type: **not specified**

## **C-band acceleration RF system for SXFEL at SINAP - Wencheng Fang (Shanghai Institute of Applied Physics)**

*Tuesday 13 June 2017 15:00 (25 minutes)*

**Presenter:** FANG, Wencheng (Shanghai Inst. of Applied Physics Chinese Academy of Science (C))

Contribution ID: 25

Type: **not specified**

## **EuSPARC design study - Massimo Ferrario (INFN-LNF) /David Alesini (INFN-LNF)**

*Tuesday 13 June 2017 15:25 (25 minutes)*

**Presenter:** ALESINI, David

Contribution ID: 26

Type: **not specified**

## **Test stands for breakdown studies on beam-driven and RF-driven structures - Jay Hirshfield (Yale University and Omega-P R&D, Inc)**

*Tuesday 13 June 2017 15:50 (25 minutes)*

**Presenter:** HIRSHFIELD, Jay L (Yale University & Omega-P, Inc.)

Contribution ID: 27

Type: **not specified**

## **Present and future applications of HG to linacs for hadron therapy - Alberto de Giovanni (ADAM)**

Contribution ID: 28

Type: **not specified**

## **Electron linac in Iran - Hamed Shaker (School of Particles and Accelerators, Institute for Research in Fundamental Sciences)**

*Tuesday 13 June 2017 17:15 (25 minutes)*

**Presenter:** SHAKER, Hamed (School of Particles and Accelerator Inst. for Res. in Fundam. S)

Contribution ID: 29

Type: **not specified**

## **An X-band system for phase space linearisation on CLARA - Louise Cowie (STFC Daresbury Laboratory)**

*Tuesday 13 June 2017 18:05 (25 minutes)*

**Presenter:** Ms COWIE, Louise (STFC Daresbury Laboratory)

Contribution ID: 30

Type: **not specified**

## **ProBE –Proton Boosting Extension for Imaging and Therapy - Samantha Pitman (University of Lancaster)**

*Tuesday 13 June 2017 17:40 (25 minutes)*

**Presenter:** Ms PITMAN, Samantha Louise (Lancaster University (GB))

Contribution ID: **31**

Type: **not specified**

## **ARIES Trans National access - Walter Wuensch (CERN)**

*Wednesday 14 June 2017 09:00 (10 minutes)*

**Presenter:** WUENSCH, Walter (CERN)



Contribution ID: 32

Type: **not specified**

## **Compact light proposal - Gerardo D'Auria - Elettra - (Sincrotrone Trieste)**

*Wednesday 14 June 2017 09:10 (25 minutes)*

**Presenter:** D'AURIA, Gerardo (Sincrotrone Trieste ScpA (IT))

Contribution ID: 33

Type: **not specified**

## **High gradient result update from Nextef Main contribution - Toshiyasu Higo (Walter)**

*Wednesday 14 June 2017 09:35 (25 minutes)*

**Presenter:** HIGO, Toshiyasu (KEK)

Contribution ID: 34

Type: **not specified**

## **Comparison of conditioning of structures currently under test in Xboxes - Tom Lukas (University of Melbourne/CERN)**

*Wednesday 14 June 2017 10:00 (25 minutes)*

**Presenter:** LUCAS, Thomas Geoffrey (University of Melbourne (AU))

Contribution ID: 35

Type: **not specified**

## **Development and Testing of High-gradient accelerating structures at Tsinghua University - Jiaru Shi ( Tsinghua University)**

*Wednesday 14 June 2017 10:25 (25 minutes)*

**Presenter:** SHI, Jiaru

Contribution ID: 36

Type: **not specified**

## **High Power Test Results of the Eli-NP S-Band Gun Fabricated With the New Clamping Technology Without Brazing - David Alesini (INFN-LNF)**

*Wednesday 14 June 2017 11:30 (25 minutes)*

**Presenter:** ALESINI, David

Contribution ID: 37

Type: **not specified**

## **Update on SLAC High-gradient Experiments with Cryogenic Normal-Conducting Cavities - Valery Dolgashev (SLAC National Accelerator Laboratory)**

*Wednesday 14 June 2017 11:55 (25 minutes)*

**Presenter:** DOLGASHEV, Valery (SLAC)

Contribution ID: 38

Type: **not specified**

## **Dark and Breakdown Currents Studies with Uppsala/CLIC X-band Spectrometer - Marek Jacewicz (Uppsala University (SE))**

*Wednesday 14 June 2017 12:20 (25 minutes)*

**Presenter:** JACEWICZ, Marek (Uppsala University (SE))

Contribution ID: 39

Type: **not specified**

## **High-Gradient Phenomena and dislocation dynamics - Walter Wuensch (CERN)**

*Wednesday 14 June 2017 15:00 (25 minutes)*

**Presenter:** WUENSCH, Walter (CERN)



Contribution ID: 40

Type: **not specified**

## **Fundamentals of metal surfaces behavior under high electric fields - Flyura Djurabekova (Helsinki University)**

*Wednesday 14 June 2017 15:25 (25 minutes)*

**Presenter:** DJURABEKOVA, Flyura (Helsinki Institute of Physics (FI))

Contribution ID: 41

Type: **not specified**

## **Microscopy on High-Gradient Samples - Enrique Rodriguez Castro (CERN)**

*Wednesday 14 June 2017 15:50 (25 minutes)*

**Presenter:** RODRIGUEZ CASTRO, Enrique (CERN)

Contribution ID: 42

Type: **not specified**

## **Multipactor and long-pulse phenomena - Benito Gimeno (University of Valencia)**

*Wednesday 14 June 2017 16:15 (25 minutes)*

**Presenter:** GIMENO, Benito (University of Valencia)

Contribution ID: 43

Type: **not specified**

## **Introduction to the Argonne Cathode Test-stand (ACT) - Jiahang Shao (Argonne National Laboratory)**

*Wednesday 14 June 2017 17:15 (25 minutes)*

**Presenter:** SHAO, Jiahang (Tsinghua University and Argonne National Laboratory)

Contribution ID: 44

Type: **not specified**

## **Some operational results on the SwissFEL RF structures and ongoing R&D cooperations - Jean-Yves Raguin (Paul Scherrer Institut)**

*Wednesday 14 June 2017 17:40 (25 minutes)*

**Presenter:** RAGUIN, Jean-Yves (Paul Scherrer Institute)

Contribution ID: 45

Type: **not specified**

## High-Gradient S-band structure tests results - Anna Vnuchenko (IFIC)

*Wednesday 14 June 2017 18:05 (25 minutes)*

**Presenter:** VNUCHENKO, Anna (Univ. of Valencia and CSIC (ES))

Contribution ID: 46

Type: **not specified**

## **High power test results of X-band deflecting cavity - Jianhao Tan (Shanghai institute of applied physics)**

*Thursday 15 June 2017 09:00 (25 minutes)*

**Presenter:** TAN, Jianhao (SINAP)

Contribution ID: 47

Type: **not specified**

## **Multi-klystron operation experience in Xbox-3 - Matteo Volpi (The Melbourne University)**

*Thursday 15 June 2017 09:25 (25 minutes)*

**Presenter:** VOLPI, Matteo (University of Melbourne (AU))



Contribution ID: 48

Type: **not specified**

## **2-structure feeding with 50MW tube/moving towards full spec operation - Veronica Del Pozo (CERN)**

*Thursday 15 June 2017 09:50 (25 minutes)*

**Presenter:** DEL POZO ROMANO, Veronica (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas)

Contribution ID: 49

Type: **not specified**

## **New high-gradient structure designs: 380 GeV CLIC and deflector - Alexej Grudiev (CERN)**

*Thursday 15 June 2017 10:15 (25 minutes)*

**Presenter:** GRUDIEV, Alexej (CERN)

Contribution ID: 50

Type: **not specified**

## **Designs and High Power Tests of Distributed Coupling Linacs - Mamdouh Nasr (SLAC National Accelerator Laboratory)**

*Thursday 15 June 2017 11:20 (25 minutes)*

**Presenter:** NASR, Mamdouh

Contribution ID: 51

Type: **not specified**

## **High-gradient low- $\beta$ structure based on acceleration with the first negative spatial harmonic - Sergey Kutsaev (RadiaBeam Systems, LLC)**

*Thursday 15 June 2017 11:45 (25 minutes)*

**Presenter:** KUTSAEV, Sergey (RadiaBeam Systems, LLC)

Contribution ID: 52

Type: **not specified**

## **THz driven structures: a streaking deflector - Micha Dehler (PSI)**

*Thursday 15 June 2017 12:10 (25 minutes)*

**Presenter:** DEHLER, Micha (PSI)

Contribution ID: 53

Type: **not specified**

## **CLIC test and prototype structure production - Anastasya Solodko (CERN)**

*Thursday 15 June 2017 15:00 (25 minutes)*

**Presenter:** SOLODKO, Anastasiya (CERN)

Contribution ID: 54

Type: **not specified**

## CLIC prototype fabrication - Fernando Toral (CIEMAT)

*Thursday 15 June 2017 15:25 (25 minutes)*

**Presenter:** TORAL, Fernando (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas)

Contribution ID: 55

Type: **not specified**

## **High-gradient design LAL - M. El-Khaldi (LAL/CNRS) /Angeles Faus- Golfe (LAL)**

*Thursday 15 June 2017 15:50 (25 minutes)*

**Presenters:** Dr FAUS-GOLFE, Angeles (Univ. of Valencia and CSIC (ES)); ELKHALDI, mohamed



Contribution ID: 56

Type: **not specified**

## **Status and perspectives on X band structures at INFN-LNF - Bruno Spataro (INFN - LNF)**

*Thursday 15 June 2017 16:15 (25 minutes)*

**Presenter:** SPATARO, Bruno (INFN - LNF)

Contribution ID: 57

Type: **not specified**

## Industry presentations: VDL - Mathieu Breukers

*Thursday 15 June 2017 18:00 (10 minutes)*

**Presenter:** BREUKERS, Mathieu (u)

Contribution ID: 58

Type: **not specified**

## Industry presentations: DMP

*Thursday 15 June 2017 18:10 (10 minutes)*

Contribution ID: 59

Type: **not specified**

## **CPI Scientific Activities - Claude Van Daele**

*Thursday 15 June 2017 18:20 (10 minutes)*

**Presenter:** VAN DAELE, Claude (CPI Europe Ltd.)

Contribution ID: **60**

Type: **not specified**

## **Jema Energy SA - Bas Eikelboom / Enrique Santiago**

*Thursday 15 June 2017 18:30 (10 minutes)*

**Presenter:** EIKELBOOM, Bas (Jema)

Contribution ID: 61

Type: **not specified**

## **design of X-band structures for the EuSPARC**

**Session Classification:** COFFEE BREAK AND POSTER SESSION

Contribution ID: 62

Type: **not specified**

## **High Gradient mm-wave Accelerating Structures and Photo-injectors - Emilio Nanni (SLAC National Accelerator Laboratory)**

*Thursday 15 June 2017 12:35 (25 minutes)*

**Presenter:** NANNI, Emilio (SLAC National Accelerator Laboratory)

Contribution ID: 63

Type: **not specified**

## **Xband Kystron/modulator experience at CERN - Gerard McGonogal (CERN)**

*Friday 16 June 2017 09:00 (25 minutes)*

**Presenter:** MCMONAGLE, Gerard (CERN)



Contribution ID: 64

Type: **not specified**

## **Sub-system Integration for the V-box - Cesar Blanch (IFIC )**

*Friday 16 June 2017 09:25 (25 minutes)*

**Presenter:** BLANCH GUTIERREZ, Cesar (Instituto de Fisica Corpuscular (ES))

Contribution ID: 65

Type: **not specified**

## **X-band and high-efficiency klystron development plans - Igor Syratchev (CERN)**

*Friday 16 June 2017 09:50 (25 minutes)*

**Presenter:** SYRATCHEV, Igor (CERN)

Contribution ID: 66

Type: **not specified**

## Two-stage RF pulse compression - Ping Wang (Tsinghua University)

*Friday 16 June 2017 10:15 (25 minutes)*

**Presenters:** WANG, Ping (Tsinghua University (CN)); WANG, Ping (Tsinghua University)

Contribution ID: 67

Type: **not specified**

## **Klystron based CLIC and Module development - Carlo Rossi /Alexej Grudiev (CERN)**

*Friday 16 June 2017 11:00 (25 minutes)*

**Presenters:** GRUDIEV, Alexej (CERN); ROSSI, Carlo (CERN)

Contribution ID: **68**

Type: **not specified**

## **CLOSING REMARKS - Walter Wuensch**

*Friday 16 June 2017 11:50 (25 minutes)*

**Presenter:** WUENSCH, Walter (CERN)

Contribution ID: 69

Type: **not specified**

## **Report on single cell structures and structures made of halves - Valery Dolgashev ()**

**Presenter:** DOLGASHEV, Valery (SLAC)

Contribution ID: 70

Type: **not specified**

## **Present and possible future schemes for hadron therapy linacs - Alberto Degiovanni (ADAM)**

*Friday 16 June 2017 11:25 (25 minutes)*

**Presenter:** DEGIOVANNI, Alberto (CERN)