

The First China-Europe Cultural Heritage Science Summer School (CECHSS2025)

Report of Contributions

Contribution ID: 1

Type: **not specified**

Opening Introduction of CECHSS2025

Monday, 18 August 2025 08:50 (10 minutes)

Presenter: Prof. FENG, Xiangqian (Institute of High Energy Physics)

Contribution ID: 2

Type: **not specified**

Opening Remarks Introduction to Institute of High Energy Physics

Monday, 18 August 2025 09:00 (10 minutes)

Morning: lectures

Presenter: DONG, Yuhui (Deputy Director of Institute of High Energy Physics)

Contribution ID: 3

Type: **not specified**

Opening Remarks

Monday, 18 August 2025 09:10 (5 minutes)

Presenter: RU, Zhitao (Chinese Academy of Sciences)

Contribution ID: 4

Type: **not specified**

Opening Remarks

Monday, 18 August 2025 09:15 (5 minutes)

Presenter: PROTASSOV, Konstantin (Université Grenoble Alpes)

Contribution ID: 5

Type: **not specified**

Opening Remarks

Monday, 18 August 2025 09:20 (5 minutes)

Presenter: MAGGIAORA, Marco (Istituto Nazionale di Fisica Nucleare)

Contribution ID: 6

Type: **not specified**

Opening Remarks

Monday, 18 August 2025 09:25 (5 minutes)

Presenter: GUTIÉRREZ, Adrián (Spanish Embassy)

Contribution ID: 7

Type: **not specified**

Opening Remarks

Monday, 18 August 2025 09:30 (5 minutes)

TBC

Presenter: BROOKER, Daniel (UK Research and Innovation, China)

Contribution ID: 8

Type: **not specified**

Cultural Heritage Research in Institute of High Energy Physics

Monday, 18 August 2025 10:05 (45 minutes)

Presenter: Prof. DONG, Yuhui (Deputy Director of Institute of High Energy Physics)

Contribution ID: 9

Type: **not specified**

Innovations in Heritage Science

Monday, 18 August 2025 10:50 (45 minutes)

Plenary Lecture (Online)

Presenter: Prof. LIANG, Haida (Nottingham Trent University)

Contribution ID: **10**

Type: **not specified**

Visit: Beijing Synchrotron Radiation Facility

Monday, 18 August 2025 14:00 (1 hour)

In groups

Presenter: Prof. XU, Wei (Institute of High Energy Physics)

Contribution ID: **11**

Type: **not specified**

Visit: Exhibition Hall of IHEP

Monday, 18 August 2025 14:00 (1 hour)

Presenter: Dr LI, Yu (Institute of High Energy Physics)

Contribution ID: 12

Type: **not specified**

Illuminating Cultural Heritage using Synchrotron Radiation Light Sources: Absorption Spectroscopy

Monday, 18 August 2025 15:30 (30 minutes)

Presenter: Prof. ZHANG, Jing (Institute of High Energy Physics)

Contribution ID: 13

Type: **not specified**

Illuminating Cultural Heritage using Synchrotron Radiation Light Sources: Imaging

Monday, 18 August 2025 16:00 (30 minutes)

Presenter: Prof. ZHANG, Kai (Institute of High Energy Physics)

Contribution ID: **14**

Type: **not specified**

Student Presentation Pitch

Monday, 18 August 2025 16:30 (1 hour)

6 min by each student (5 min pre+1 min Q&A)

Presenter: 15 STUDENTS

Contribution ID: **15**

Type: **not specified**

Welcome Banquet

Peking Duck

Contribution ID: 16

Type: **not specified**

Ageing of Polymeric Materials in/for Cultural Heritage: from traditional techniques to surface-enhanced Raman spectroscopy

Tuesday, 19 August 2025 09:00 (45 minutes)

Presenter: Dr LAZZARI, Massimo (University Professor for Physical Chemistry at University of Santiago de Compostela)

Contribution ID: 17

Type: **not specified**

From Stars to Sites: Archaeoastronomy Research in Thailand

Tuesday, 19 August 2025 09:45 (45 minutes)

Presenter: Prof. SIRAMAS , Komonjinda (Chiangmai University)

Contribution ID: 18

Type: **not specified**

Sustainable Heritage Conservation. Portable and Non Destructible Techniques (NDT) in Heritage Science

Tuesday, 19 August 2025 11:00 (45 minutes)

Presenter: Dr ÁLVAREZ DEL BUERGO, Mónica (CSIC Senior Researcher, Petrophysics Laboratory Head, Institute of Geosciences)

Contribution ID: 19

Type: **not specified**

The Origin and Development of Lacquer Crafts in Ancient China

Tuesday, 19 August 2025 14:00 (30 minutes)

Presenter: Prof. WEI, Shuya (University of Science and Technology Beijing)

Contribution ID: 20

Type: **not specified**

Analyzing Archaeological Earthen Materials using the Soil Micromorphological Method

Tuesday, 19 August 2025 14:30 (30 minutes)

Presenter: Dr LIAN, Huiru (University of Science and Technology Beijing)

Contribution ID: 21

Type: **not specified**

Non-Invasive Characterization Techniques for Cleaning Cultural Heritage

Tuesday, 19 August 2025 15:20 (30 minutes)

Presenter: Prof. POZO, Lago (the School of Mining and Energy Engineering of the University of Vigo)

Contribution ID: 22

Type: **not specified**

CHINA-SPAIN DIALOGUE ON SCIENCE, TECHNOLOGY, AND HERITAGE: From Knowledge to Conservation

Tuesday, 19 August 2025 18:00 (2 hours)

Optional: Students are welcome to register and attend

Presenter: GUTIÉRREZ, Adrián

Contribution ID: 23

Type: **not specified**

Introduction to the Palace Museum

Wednesday, 20 August 2025 09:00 (10 minutes)

Presenter: Dr LEI, Yong (Director and Research Fellow at the Conservation Department of the Palace Museum)

Contribution ID: 24

Type: **not specified**

Conservation and Restoration Techniques Practiced in the Palace Museum

Wednesday, 20 August 2025 09:10 (40 minutes)

Presenter: Dr LEI, Yong (Director and Research Fellow at the Conservation Department of the Palace Museum)

Contribution ID: 25

Type: **not specified**

3D Approach to Preserving and Transmitting the History of Clockmaking

Wednesday, 20 August 2025 09:50 (45 minutes)

Presenter: Prof. PROTASSOV, Konstantin (Université Grenoble Alpes)

Contribution ID: 26

Type: **not specified**

Visit: Palace Museum Conservation Center and Open Area

Presenter: Dr LEI, Yong (Director and Research Fellow at the Conservation Department of the Palace Museum)

Contribution ID: 27

Type: **not specified**

Electron Beam Irradiation in Artifacts Conservation

Thursday, 21 August 2025 09:35 (35 minutes)

Presenter: Prof. LUO, Min (Institute of High Energy Physics)

Contribution ID: 28

Type: **not specified**

AI for Cultural Heritage Science

Thursday, 21 August 2025 09:00 (35 minutes)

Presenter: Prof. ZHAO, Lina (Institute of High Energy Physics)

Contribution ID: 29

Type: **not specified**

X-ray CT and Its Applications in Cultural Heritage

Thursday, 21 August 2025 10:30 (35 minutes)

Presenter: Prof. XU, Qiong (Institute of High Energy Physics)

Contribution ID: 30

Type: **not specified**

Cosmic Ray Muon Imaging in Archaeology

Thursday, 21 August 2025 11:05 (35 minutes)

Presenter: Prof. FAN, Xingming (Institute of High Energy Physics)

Contribution ID: 31

Type: **not specified**

Application of Thermoluminescence and Cathodoluminescence in Archaeology

Thursday, 21 August 2025 11:40 (20 minutes)

Presenter: Prof. FAN, Dongyu (Beijing University of Posts and Telecommunications)

Contribution ID: 32

Type: **not specified**

Calculation about Detection and Imaging of Unknown Objects in a Hill by Cosmic Ray

Thursday, 21 August 2025 14:00 (30 minutes)

Presenter: Prof. HENG, Yuekun (Institute of High Energy Physics)

Contribution ID: 33

Type: **not specified**

Provenancing and Dating of Ancient Chinese Ceramics

Thursday, 21 August 2025 14:30 (30 minutes)

Presenter: Prof. YAN, Lingtong (Institute of High Energy Physics)

Contribution ID: 34

Type: **not specified**

Visit: Ceramics Exhibition Hall, Institute of High Energy Physics

Thursday, 21 August 2025 15:00 (1h 30m)

In groups (12 persons), parallel

Presenter: Prof. YAN, Lingtong (Institute of High Energy Physics)

Contribution ID: 35

Type: **not specified**

Hands-on Experiments: Thermoluminescence/X-ray Fluorescence

Thursday, 21 August 2025 15:00 (1h 30m)

In groups (12 persons), parallel

Primary author: LI, Li (Institute of High Energy Physics)

Co-author: SUN, Heyang

Presenters: SUN, Heyang; LI, Li (Institute of High Energy Physics)

Contribution ID: 36

Type: **not specified**

Watch Video: Traditional Ceramic Manufacturing Techniques

Thursday, 21 August 2025 15:00 (1h 30m)

In groups(12 persons), parallel

Presenter: STUDENT VOLUNTEERS

Contribution ID: 37

Type: **not specified**

Student Presentation Pitch

Thursday, 21 August 2025 16:30 (1h 30m)

6 min by each student (5 min pre+1 min Q&A)

Presenter: 15 STUDENTS

Contribution ID: 38

Type: **not specified**

Before and After the Silk Road–Archaeobotanical Studies in Ancient Turpan of Xinjiang

Friday, 22 August 2025 09:00 (45 minutes)

Presenter: Prof. JIANG, Hongen (University of Chinese Academy of Sciences)

Contribution ID: 39

Type: **not specified**

The Early Development of Herding in Ancient China

Friday, 22 August 2025 09:45 (45 minutes)

Presenter: Prof. YANG, Yimin (University of Chinese Academy of Sciences)

Contribution ID: 40

Type: **not specified**

Subsistence Strategy of the Neolithic People in the Guanzhong Region Indicated by Archaeobotany and Bioarchaeology

Friday, 22 August 2025 11:00 (30 minutes)

Presenter: Prof. SHANG, Xue (University of Chinese Academy of Sciences)

Contribution ID: 41

Type: **not specified**

Ancient Protein Analysis in Archaeology

Friday, 22 August 2025 11:30 (30 minutes)

Presenter: Prof. RAO, Huiyun (Institute of Vertebrate Paleontology and Paleoanthropology)

Contribution ID: 42

Type: **not specified**

Traditional Chinese crafts (papermaking, tie-dyeing, and incense pouch making) and ceramic restoration techniques (demonstrated by restorers)

Friday, 22 August 2025 14:00 (2 hours)

Hands-on session

Presenter: Prof. SHANG, Xue (University of Chinese Academy of Sciences)

Contribution ID: 43

Type: **not specified**

Student Presentation Pitch

Friday, 22 August 2025 16:30 (1h 30m)

6 min by each student (5 min pre+1 min Q&A)

Presenter: 15 STUDENTS

Contribution ID: 44

Type: **not specified**

Transportation to HEPS

Contribution ID: 45

Type: **not specified**

Visit: High Energy Photon Source

Saturday, 23 August 2025 11:15 (45 minutes)

Presenter: Mr GUO, Lijun

Contribution ID: 46

Type: **not specified**

Climate Change and Culture Heritage Conservation

Saturday, 23 August 2025 10:30 (45 minutes)

Presenter: Prof. FAVERO, Gabriele (Sapienza University of Rome)

Contribution ID: 47

Type: **not specified**

Tour: Mutianyu Great Wall

Mr. Yongmao Cheng, expert of ancient architecture restoration, will join

Presenter: Mr GUO, Lijun

Contribution ID: 48

Type: **not specified**

Tour: UNESCO World Heritage Sites

Sunday, 24 August 2025 09:00 (7 hours)

Optional

Presenter: VOLUNTEERS (CHINESE STUDENTS)

Contribution ID: 49

Type: **not specified**

Travel to Xi' an, Shaanxi

Monday, 25 August 2025 09:00 (7 hours)

High-speed Train to Xi'an

Contribution ID: 51

Type: **not specified**

Opening Remarks

Tuesday, 26 August 2025 09:30 (10 minutes)

Presenter: XIA, Yin (Head of Conservation Department at Emperor Qinshihuang' s Mausoleum Site Museum)

Contribution ID: 52

Type: **not specified**

Introduction to Emperor Qin' s Mausoleum Museum and Its Cultural Heritage Research

Tuesday, 26 August 2025 09:40 (45 minutes)

Presenter: XIA, Yin

Contribution ID: 53

Type: **not specified**

Craftsmanship in Chang'an: Analysis of Production Techniques of Typical Artefacts in the Capital of the Han and Tang Empires

Tuesday, 26 August 2025 10:45 (30 minutes)

Presenter: ZHAO, Fengyan

Contribution ID: 54

Type: **not specified**

Multimodal Intelligent Perception and Living Inheritance of Cultural Relics

Wednesday, 27 August 2025 09:40 (30 minutes)

Presenter: Dr ZHANG, Shaobo (Northwest University)

Contribution ID: 55

Type: **not specified**

Energy-Resolved Neutron Imaging and Its Applications in Cultural Heritage

Tuesday, 26 August 2025 11:15 (30 minutes)

Presenter: Prof. JIE, Chen

Contribution ID: 56

Type: **not specified**

Silk Roads and Global Connections through the Study of Heritage Materials

Wednesday, 27 August 2025 10:10 (40 minutes)

Plenary Lecture (Online)

Presenter: Prof. LIANG, Haida (Nottingham Trent University)

Contribution ID: 57

Type: **not specified**

Visit: National-Local Joint Engineering Research Center of Cultural Heritage Digitization

Wednesday, 27 August 2025 10:50 (20 minutes)

TBC

Presenter: Prof. LI, Kang (Northwest University)

Contribution ID: 58

Type: **not specified**

Group Summary by Students

Wednesday, 27 August 2025 11:10 (20 minutes)

All students

Contribution ID: 59

Type: **not specified**

Closing Ceremony

Wednesday, 27 August 2025 11:30 (10 minutes)

Contribution ID: **60**

Type: **not specified**

Visit: Emperor Qinshihuang' s Mausoleum Site Museum

Afternoon Session

Contribution ID: 61

Type: **not specified**

Introduction on Information Science Discipline, Northwest University

Wednesday, 27 August 2025 09:30 (10 minutes)

Presenter: Prof. LI, Kang (Northwest University)