

### austrijski kulturni forum ar

### DAADCONNECT2020



## PAST, PRESENT AND FUTURE OF UNIVERSE SCIENCE&ART - CONNECTING PEOPLE

### Cultural Collisions Bosnia and Herzegovina - 2020/2021

Jadranko Batista<sup>1</sup>, Daniela Brill<sup>2</sup>, Azra Gazibegović Busuladžić<sup>3</sup>, Nikola Godinović<sup>4</sup>, Mirza Hadzimehmedović<sup>5</sup>, Michael Hoch<sup>6</sup>, Ivica Puljak<sup>4</sup>, Nemanja Rakić<sup>7</sup>, Christoph Schäfer<sup>8</sup>,

<sup>1</sup>University of Mostar, Mostar, Bosnia and Herzegovina <sup>2</sup>Master, Science & Art, University Applied Arts Vienna, Austria <sup>3</sup>University of Sarajevo, Sarajevo, Bosnia and Herzegovina <sup>4</sup>University of Split, Split, Croatia <sup>5</sup>University of Tuzla, Tuzla, Bosnia and Herzegovina <sup>6</sup>FSU − Florida State University, United States <sup>7</sup>University of Banja Luka, Banja Luka, Bosnia and Herzegovina <sup>8</sup>CERN - European Organization for Nuclear Research, Geneva, Switzerland Organized by ORIGIN-CMS, Summary 2021

## **Objectives**

### Demonstrate how science & art enables connecting people

**stimulate curiosity** on science, **foster** critical & creative thinking process; **engage** in science via art practice

Engage, Network and Inspire all generations, particularly young people

**Regional Involvement** of Schools, Universities and local cultural Institutions

**Network & Connect** Students **local** scientists, artists, educators and real people with **international** partners in science & art

**Foster digitalisation:** bring **Big Science** experiments such as those at **CERN**, **gravitational waves** interferometers, **space telescopes** live into the class room and disseminate how **global science collaborations** networking works.

**Sustainability: Transfer methodology knowledge, materials tools** to local partners

## Format - Cultural Collisions

Cultural Collisions is an educational interdisciplinary art & science engagement and networking format that allows students to gain authentic and personal access to the world of science and to approach complex topics through artistic exploration.

### **Cultural Collisions is divided into 3 phases:**

- Interdisciplinary exhibition / lectures and Workshops: (beginning of School Year e.g. September or October)
  - science, technology and art exhibition lectures and workshops held by scientists and artists.
- 2. Elaboration of the topics at schools: (e.g. October May)
  - **further research and w**ork of the students with creative supervisors in dialogue with science teachers at the schools.
  - Several event should be offered: ideas exchange rehearsal sessions, mentoring and discussion sessions with in international partners/ Virtual Visits to large international Science experiments e.g. CERN
- 3. Final presentation of the students' works: (end of School Year; e.g. May or June) exhibition of the themes/artworks created by the students in a museum, possibly again with a supporting program.

The process that the students go through during the workshop allows them to acquire scientific skills, as well as to discuss and express creative approaches to solutions in an artistic dialogue.

The **direct contact with real scientists and artists**, who are perceived as identification figures and can give the students direct, **real-life and professional insights**,

## Teams from all over B&H

<u>**Duration:**</u> Nov. 2020 - June 2021

### 11 teams in 6 towns:

- Banja Luka,
- Gradačac,
- Mostar
- Sarajevo,
- Tuzla,
- Zenica

### **Every team consists of at least:**

- Students
- One teacher
- One scientist
- One local artist

BOSNA I HERCEGOVINA **VOJVODINA** SERBIA CROATIA Sarajevo Gacko\* ADRIATIC SEA MONTENEGRO

Planning: new Cycle 2021/2022

### Schedule

- 1. **Pre Opening:** install in 4 cities small local inspiration exhibitions:
  - 18 printed posters sent to each town to create 4 local science & art exhibitions for inspiration.
  - All 4 exhibitions sponsored by **ACF** and **DAAD** stay permanently with local partners.
- 2. Kick-off online Symposium: 6 and 7 Nov 2020; https://indico.cern.ch/event/970862/
- 3. First Ideas Exchange Session: -12 Dec 2020; https://indico.cern.ch/event/1015445/
- 4. Second General Rehearsal Session: Feb. 16th 2021; https://indico.cern.ch/event/1005605/
- 5. Virtual Visit to CERN / CMS: March 25th 2021; https://indico.cern.ch/event/1018237/
  - Plenary session contributions by director Austrian Cultural Forum, Science Minister Sarajevo, Vice Rector Univ. Banja Luka, Art Gallery Director Mostar
  - Introduction Presentation & Virtual Visit to CMS/ CERN followed by Q&A session
- 6. 3rd General Rehearsal session: May 26th 2021: https://indico.cern.ch/event/1041786/
- 7. Closing Hyrid-Vernissage: June 18th 2021: https://indico.cern.ch/event/1047913/
  - International Zoom Conference + 2 physical presents Vernissages (Sarajevo + Banja Luka)
  - Student presentation + Plenary Session with local partners
- Preview: Kick Off of Cultural Collisions Cycle 2021/2021: Autumn 2021

## Posters - permanent local exhibitions



Exhibition Posters 2020/2021; Sponsored by "Austrian Cultural Forum" and "DAAD-CONNECT"

## **Kick Off Symposium**

Web Link: <a href="https://indico.cern.ch/event/970862/">https://indico.cern.ch/event/970862/</a>



Overview

Timetable

Registration

Participant List

ZOOM link

### PAST, PRESENT AND FUTURE OF THE UNIVERSE

#### SCIENCE & ART CONNECTING PEOPLE

Inspiring teams of young people to work on **scientific topics** for several months supervised by scientists and artists to create **artistic videos** or **digital artworks** that illustrate their interdisciplinary **dialogue**. The **target audience** for these digital artworks are other young students, of similar age, as well as members of the general public.

supported by: Austrian Cultural Forum Sarajevo, ORIGIN, DAADconnect2020

Sessions Video recorded:

6th Nov. morning session: https://videos.cern.ch/record/2743874

6th Nov. afternoon session: https://videos.cern.ch/record/2743875

7th Nov. brainstorming session: https://videos.cern.ch/record/2743876

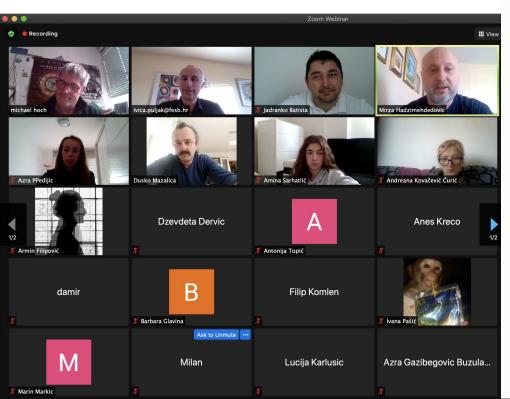
# Kick Off Symposium 11/2020 Participation

<u>Program:</u> **2** Days

Participants: 132

<u>Teams:</u> 4

<u>Cities:</u> 4





### Cultural Collisions Bosnia and Herzegovina November 2020 - May 2021

#### PAST, PRESENT & FUTURE OF THE UNIVERSE

#### Topics:

The Big Bang and Early Universe
The Evolution of the Universe
Black Holes and Gravitational Waves
The End of the Earth, the Sun and the Universe
Physics and Art
Science Communication

#### Schedule

6th, 7th November 2020: Kick Off online symposium November 2020 to May 2021: Work in teams with help from mentors May 2020: Closing Symposium: final exhibition and presentation, contest and awards

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Inspire teams in each city to work on scientific topics during the year to create digital artworks in which students present their interdisciplinary dialogue. The participants will be supervised by scientists and artists during the whole process. The target audience for these digital artworks are other young students, similar age.

#### Organisation

Jadranko Batista (Mostar), Daniela Brill (Vienna/Bogota), Azra Gazibegović Busuladžić (Sarajevo), Saša Ceci (Zagreb), Nikola Godinović (Split), Admir Greljo (Bern), Mirza Hadžimehmedović (Tuzla), Martin Hendry (Glasgow), Michael Hoch (Vienna/ CERN), Sabine Kernthaller (Vienna/ Sarajevo), Predrag Milenović (Beograd), Tijana Prodanović (Novi Sad), Ivica Puljak (Split), Nemanja Rakić (Banja Luka)

for registration and more information:



https://indico.cern.ch/event/970862/

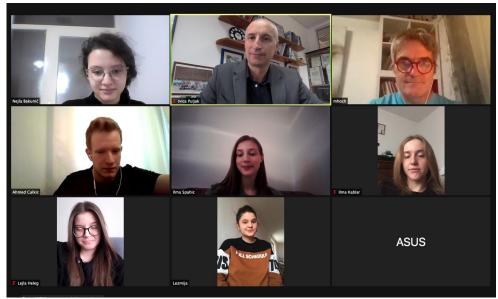
**SCIENCE & ART CONNECTING PEOPLE** 



## Two new group joined

Team GRADAČAC





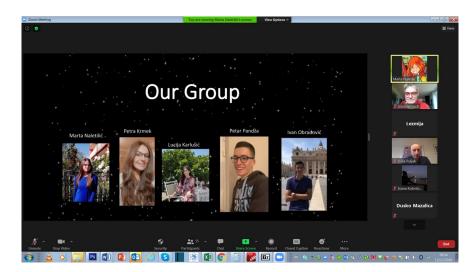
Team ZENICA

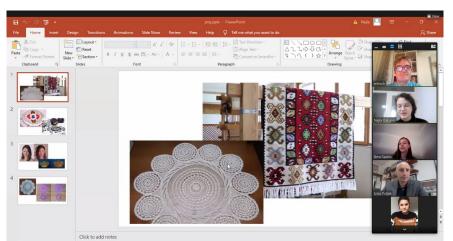
### Ideas Exchange & Rehearsal Sessions

Students present their Ideas research or progress and discuss with scientists

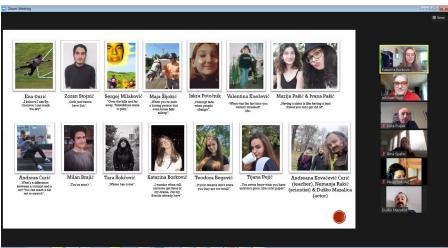
**Dates:** December 12<sup>th</sup> 2020, First Ideas Exchange Session: https://indico.cern.ch/event/1015445/

February 16<sup>th</sup> 2021, Second General Rehearsal Session: https://indico.cern.ch/event/1005605/



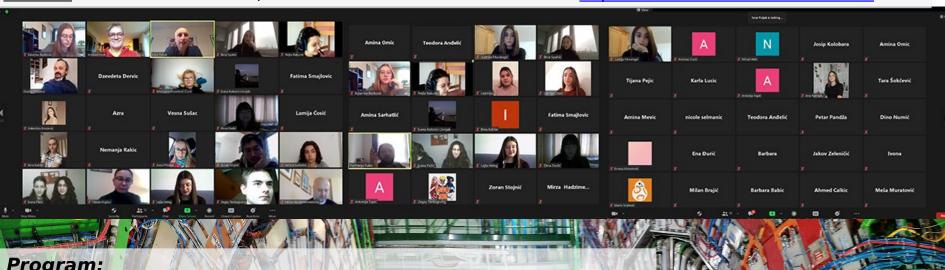






## Virtual Visit to CERN / CMS

March 25<sup>th</sup> 2021, **CERN/CMS virtual visit:** Dates: https://indico.cern.ch/event/1018237/



#### **Program:**

10:30 Welcome / Prof. dr. Mirza Hadžimehmedović, University of Tuzla

10:33 Cultural Collisions - Sci&Art, Dr. Michael Hoch, FSU

Tallahassee USA

10:40 Dir. Sabine Kernthaller, MA, Austrian Cultural Forum Sarajevo

10:45 Dr. sc. Melika Husić-Mehmedović, Science Minister, Higher Education and Youth, Kanton Sarajevo.

10:50 Prof. dr. Biljana Antunović, Vice-Rector for International and Interuniversity cooperation University of Banja Luka

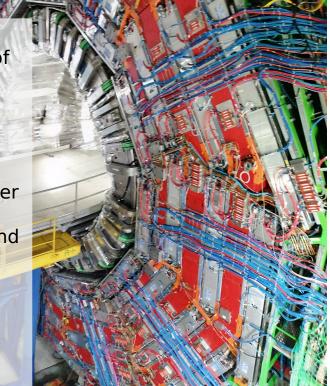
10:55 Dalibor Nikolić, Galery Kraljica Katarina Kosača, Mostar

11:00 START CERN - CMS VIRTUAL VISIT

lecture: Prof. dr. Ivica Puljak, University of Split

guide at CERN/ CMS: Dr. Michael Hoch, FSU Tallahassee

USA



### Final Hybrid Vernissage (Sarajevo/ Banja Luka/ Zoom online) June 18<sup>th</sup> 2021

### Cultural Collisions Bosnia & Herzegovina Hybrid Vernissage

June 18th 2021



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#### DAADCONNECT2020













































#### 13h - 16h20 General Session:

Students of 6 different cities present the results of their creative dialogue Sarajevo, Banja Luka, Mostar, Tuzla, Zenica, Gradačac

#### 16h30 - 18h General Discussion:

Michael Hoch. ORIGIN program leader

Ivica Puljak, ORIGIN regional coordinator/ Split Mayor

Mirza Hadžimehmedović, ORIGIN Bosnia & Herzegovina coordinator

Sabine Kernthaller, Director Austrian Cultural Forum/ Austrian Embassy Sarajevo

Marcus Bleicher, DAAD /CONNECT 21 project leader

Christoph Schäfer, CERN

Melika Husić-Mehmedović, Minister Higher Education and Science, Sarajevo

Mirza Dautbašić, Vice Rector UNSA

Sanja Bijakšić, Vice-Rector University of Mostar

Elvis Baraković, Minister for Science & Education Tuzla

Vesna Bratovčić, Vice Rector IR UNTZ

Jasmin Imamović, Tuzla Mayor

Srđan Rajčević, Minister Science and Technology, Higher Education Republika Srpska

Goran Trbić, Dean Faculty of Natural Sciences and Mathematics, University of Banja Luka

Biliana Antunović, Vice-Rector for International and Interuniversity Cooperation, University of Banja Luka

Suzana Gotvac Atlagić, Assistant Prof. RMSchools Ambassador at Schools 4.0. EIT

#### Program:

https://indico.cern.ch/event/1047913/

Zoom: https://cern.zoom.us/i/68405785504?pwd=dU13dG9mOVNTL0FVc052NHJiczFqUT09

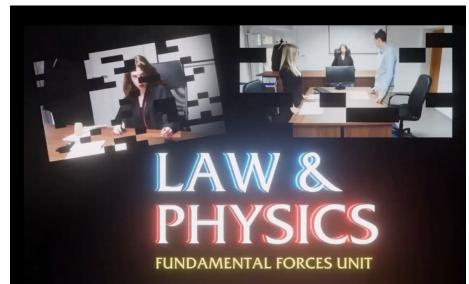


## Some creative results:

# Original challenge to all 11 student working groups in 6 different cities was to:

- learn about the scientific topic
- continue your own research
- connect to local and international researchers
- start a dialogue with local creative community
- create a novel artwork which is dedicated to communicate the scientific topic to your peer group or younger students.
- All creative expressions are allowed.





TV Serie Law & Physics Court Room

Round Table Discussion



Stop Motion Film





Philosophical Animation Video

### Some creative results:

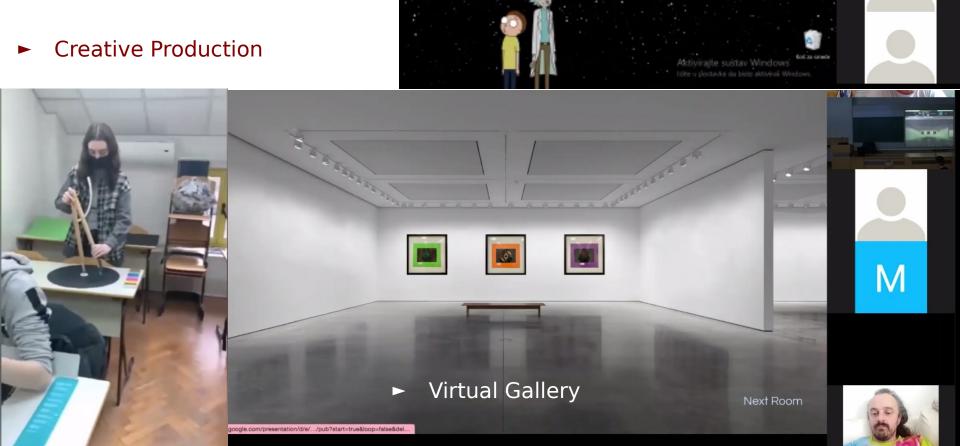
Theatre Play





Social Media Participatory art piece with Small Children

► Animation Video







Animation Video

Presentation







## Summary

- ► Excellent first cycle kick-off program designed for long term engagement
- ► Enthusiastic Participation and Strong Engagement of Various Communities contributed to the Outstanding Success:
  - Students / Teachers
  - Regional scientist groups / international science community
  - Local art community / international guests
  - Local and regional support by political opinion leaders, academic institutions
  - Galleries, Theatre, Schools, Radio Stations, TV stations
  - International support by diplomatic institutions
- ► Excellent Networking and support by local scientists and local creative & art community
  - Enthusiasm level high particularly among students and supervisors
  - Passionate engagement of reginal and international science community
  - High interest of opinion leaders, higher education institutions as well as local and regional creative community