

STEAMING

Structured Course & Board Meeting

Krapina-Zagorje County, Croatia
9th – 11th November 2022



Green waves of the hills – Hrvatsko zagorje, continental part of Croatia

Photo by Ivan Hlebec

Project Partners:

- P1: Clare Education Centre, Ireland
- P2: Osnovna škola Matije Gupca, Croatia
- P3: Luster municipality, Norway
- P4: Directorate of Primary Education of Western Thessaloniki, Greece
- P5: Agrupamento de Escolas Carlos Gargate, Portugal
- P6: Department of STEM Education, Mary Immaculate College, Ireland

About

Republic of Croatia is a country in Central and Southeast Europe, on the coast of the Adriatic Sea. It borders Hungary to the northeast, Serbia to the east, Bosnia and Herzegovina, and Montenegro to the southeast, and Slovenia to the northwest. The country spans an area of 56,594 square kilometers (21,851 square miles), with a population of nearly 3.9 million. Zagreb is the capital and largest city.

Croatia is geographically diverse. The crescent-shaped country features low mountains and highlands near the Adriatic coastline, flat plains that hug the Hungarian border, and a multitude of islands. Over a thousand islands are found off this coastline. Many are major tourist areas including the Dalmatian coast.

Most of Croatia has a moderately warm and rainy continental climate. In mountainous regions, winters are cold and snowy, and the summers are mild. The country's coastal areas have a Mediterranean climate with hot, sunny summers and mild winters.

Krapina-Zagorje County is a county in northern Croatia, bordering Slovenia. As of the 2011 census, the county had 132,892 residents. The population density is 110 people per km².

Hrvatsko zagorje has a gorgeous undulating landscape crisscrossed by hills and rivers.

Krapina is the famous archaeological site of Homo Krapiniensis (excavation site of a 100,000-year-old Neanderthal man in caves near the central town of Krapina).

The county contains many vineyards. Zagorje has many thermal springs and spas like Tuhelj Spa (Tuheljske toplice) and Stubica Spa (Stubičke toplice). Marija Bistrica is the biggest Marianic sanctuary in Croatia and has been a place of pilgrimage for over 300 years. Also in the area are the medieval castles Veliki Tabor, Miljana, Bežanec, Milengrad, etc.

<https://en.wikipedia.org/wiki/Croatia>

https://en.wikipedia.org/wiki/Hrvatsko_Zagorje#/media/



Photo by Ivan Hlebec

Marija Bistrica

ES Matije Gupca Gornja Stubica



Primary education in Croatia starts at the age of six or seven and consists of eight grades. Compulsory education consists of eight grades of elementary school. Secondary education is provided by gymnasiums and vocational schools.

ES Matije Gupca Gornja Stubica has located just 40 km from Zagreb (the capital of Croatia), in a village and municipality Gornja Stubica, in a beautiful rural area in the south of Krapina-Zagorje County, on the slopes of Mount Medvednica. The school in Gornja Stubica has been operating since 1863.

ES Matije Gupca Gornja Stubica is a public primary school attended by 7-14 years old students from 1st to 8th grade in 24 classes. It consists of the main school in the settlement of Gornja Stubica with 320 students and four satellite schools in villages Dubovec (temporarily closed), Dobri Zdenci (7 students), Hum Stubički (13 students), and Sveti Matej (21 students). From the school year 2019/2020, the school has a Music School with 50 students in 3 departments.

The name of the school is given upon Matija Gubec, a leader of great peasant rebellion in 1573 which was the most important historical event in the area, therefore the event has a great monument in Gornja Stubica.



**Tuesday
November 8th**

Arrival of participants – Hotel Kaj, Marija Bistrica

**Wednesday
November 9th**

Hotel Kaj conference hall:

9.00 – 09.15 –Welcome and greetings from representatives of Krapina-zagorje municipality from the Department for education, culture, sport and technical culture and organizer ES Matija Gubec principal Sanja Knezić

9:15 – 9:30 - Ray McInerney, the main coordinator of Erasmus+ STEAMING project - Introduction about STEAMING project – with presentations of Handbook part 2,

9:30 – 9:45 - Dr Stephen Molloy – general overview of the partners’ Case Study reports

9.45 – 11:00 – Dr Anne-Marie Morrin STEAMING workshop

11.00 – 11.30 - Coffee break

11:30- 12:45 – More about the STEAM – Teach Meet – each partner 7-10 min (short presentations)

13:00 – 13.45 Lunch in the hotel

14:00 – 15:30 Brainstorming session - break into country groups and discuss which arise – coordinated and notated by Dr Edward Corry

15:30 – 16:00 Coffee break

16.00 – 17.00 Dr Mairead Hourigan and Dr Aisling Leavy– Insights into the characteristics of effective STEAM professional development

- **parallel session: 14:15 – 17:00-** Board meeting

17:15-17:45 – visit to the sanctuary of the Mother of God

18:00-18:45 - Marija Bistrica – pilgrimage place

19.00 – dinner in the hotel

**Thursday
November 10th**

Educational and cultural visit

Hotel conference hall:

9:00-10:30 panel discussion: The future of the STEAM – discussion leaders Knut Åge Teigen and Ines Krušelj-Vidas

Cultural visit to Zagreb

10:45 - departure from the hotel to Zagreb

12:00-13:30 – visiting Nikola Tesla Technical Museum

13:30 – 14:30 – lunch in Pivnica Budweiser

14:30 - 15:30 – **Zagreb guided tour**

15:30 - 17:00 – STEAM exploring Zagreb

17:30 – departure to the Gornja Stubica

19:00 – dinner in restaurant Rody in Gornja Stubica

**Friday
November 11th**

School visit:

8:45 departure from the hotel

9:15-9:45 visiting Dobri Zdenci satellite school

10:00 – 10:30 visiting Matije Gupca elementary school – welcome and coffee

Norwegian team leaving at 10:35

Portuguese team is leaving at 11:35

10:30 – 12:00 STEAMING tour around the school

12:00 – 13:00 lunch in the school

Irish team is leaving at 13:20

Meet the lecturers

Ray McInerney	Former director of Clare Education Centre and the main coordinator of the Erasmus + STEAMING project. Clare Education Centre has responsibility for the provision of professional development courses for teachers in response to both national priorities and locally identified needs. Now is the Principal of Ennis National School. Ray also works with school leaders through his work on the PDST Leadership Team and with the Centre for School Leadership. Ray's current area of interest in professional development is in the area of Leadership Caching for school leaders.
Dr. Stephen Molloy	Dr. Stephen Molloy is a former Associate Dean and director of European projects at Leeds Metropolitan (now Beckett) University, lecturer in sociology and visiting research fellow at the University of Leeds. Research and publications have encompassed UK and European educational policy and the work of German sociologist, Max Weber. Consultant and external adviser to EU research and development projects on educational and social inclusion in the UK, Ireland, Italy, Portugal, Spain, Norway, Sweden, Denmark, Iceland, Lithuania, Hungary, Romania, Bulgaria, Greece and Croatia.
Dr. Anne-Marie Morrin	Dr. Anne Marie Morrin is a lecturer Visual Art Education in the Dept. of Arts Education and Physical Education in Mary Immaculate College, Limerick. Anne Marie's interests include interdisciplinary approaches to visual art education; STEAM Education; educational environments as pedagogy; reflective journals as a tool in the classroom.
Dr. Edward Corry	Dr. Edward Corry is a lecturer in Technology Enhanced Learning at MIC, Limerick. He is a member of the department of STEM Education in the college and has been involved with the STEAMing project over the past 3 years.
Dr. Mairéad Hourigan	Dr. Mairéad Hourigan is a mathematics teacher educator working within the STEM Education Department of Mary Immaculate College, Limerick, Ireland. Her research interests span various aspects of both mathematics education and STE(A)M education.
Dr. Aisling Leavy	Dr. Aisling Leavy is a statistics and mathematics educator and head of the Department of STEM Education at Mary Immaculate College, Limerick, Ireland. Her researches are in teacher education, statistics and mathematics education and STEM/STEAM.
Knut Åge Teigen	Knut Åge Teigen is Director of Education in Luster Municipality since 2014. Teigen has worked with education from various perspectives; as producer of educational films, text book author and editor as well as teacher at a project school 8-10th grade for many years.
Ines Krušelj-Vidas	Ines Krušelj-Vidas is a teacher librarian in ES Matije Gupca Gornja Stubica dedicated to the development of students' literacy and information literacy. As a coordinator of Erasmus+ project encourages international cooperation with colleagues and the development of the European dimension of the ESMGGS school.

Participants

Clare Education Centre, Ireland	Luster kommune, Norway	Agrupamento de Escolas Carlos Gargate, Portugal
Martin Moloney (BM)	Knut Åge Teigen (BM)	Graça Carvalha (BM)
Michael Browne (BM)	Knut Hauge (BM)	Rui Páscoa (BM)
Ray McInerney	Stian Kvalsøren	Ilda Ribeiros
Susan Frawley	Håvard Takle Sanden	Rosa Maricato
Laura Capon	Norill Terese Norheim	Ana Elias
Aaron Carroll	Marta Hatlevoll	Carlos Vitorino
Avril Bolton	Siv Anja Kvalsøren	Carolina Fernandes
		Cristina Favinha
Directorate of Primary Education of Western Thessaloniki, Greece	Mary Immaculate College of Education, Ireland	Osnovna škola Matije Gupca, Croatia
Kostas Vasileiou (BM)	Mairead Hourigan (BM)	Sanja Knezić (BM)
Anastasia Mallou (BM)	Aisling Leavy (BM)	Ines Krušelj-Vidas (BM)
Babis Akritidis	Edward Corry	Nikola Grden
Periklis Christidis	Anne Marie Morrin	Neven Košec
Gorgiou Christos		Željka Franjković
Dimitrios Galanos	External Evaluator, England	Marko Mihaljinec
	Steve Molloy	Armina Rod
		Danijela Miljan
		Gordana Janđel
		Martina Brlečić

Weather forecast and practical advice

The climate is changing – that is for sure. Usually we have winter coats in November, but not this year.

You may check the local weather app yr.no (yes, in Croatia it is in use, too)

	Table		Graph				
	Night	Morning	Afternoon	Evening	Max/min temp.	Precip.	Wind
Monday 7 Nov.					14° / 6°		1 m/s
Tuesday 8 Nov.					13° / 4°		2 m/s
Wednesday 9 Nov.					17° / 8°		3 m/s
Thursday 10 Nov.					16° / 5°		1 m/s
Friday 11 Nov.					14° / 6°		2 m/s
Saturday 12 Nov.					15° / 5°		2 m/s

Most of Croatia has a moderately warm and rainy continental climate.

Clothes and shoes

Leisure outfit (leisure trousers and good walking shoes for the short hikes, but also raincoat; and also swimming suits and costumes, sandals, hats or caps – in the hotel there is wellness and spa offer).

Accommodation and conference: Hotel Kaj, Marija Bistrica

More about the accommodation and hotel at: <https://www.hotelkaj.hr/en/>




Marija Bistrica is the most famous Croatian shrine where more than 800,000 pilgrims from all over the world come every year to pray.



Thursday – cultural visit to Zagreb:

- Technical museum Nikola Tesla
- Guided tour in the center of Zagreb

NIKOLA TESLA
INVENTOR | C. 1856–1943

Nikola Tesla was an engineer known for designing the alternating-current (AC) electric system, which is still the predominant electrical system used across the world today. He also created the Tesla coil, which is still used in radio technology.

QUICK FACTS

- Born in modern-day Croatia
- Worked with Thomas Edison
- Photographic memory
- Created Tesla coil used in radios
- Tesla Motors named after him

"The scientists of today think deeply instead of clearly. One must be sane to think clearly, but one can think deeply and be quite insane."

BIOGRAPHY

Photo: Reproduction: Science Photo Library Ltd. via Wikimedia Commons

<https://www.biography.com/inventor/nikola-tesla>

"Our virtues and our failings are inseparable, like force and matter. When they separate, man is no more."

— Nikola Tesla

"I do not think you can name many great inventions that have been made by married men."

— Nikola Tesla

"The scientists of today think deeply instead of clearly. One must be sane to think clearly, but one can think deeply and be quite insane."

— Nikola Tesla

More about Nikola Tesla: <https://www.smithsonianmag.com/history/the-rise-and-fall-of-nikola-tesla-and-his-tower-11074324/>

Zagreb – capital of Croatia



Photo by Ivan Hlebec

Notes:

