# Program

#### Sunday 21st August

Arrival of the Participants for Teacher's Professional Development

All the sessions/meetings will be held in the room "Fizikalni laboratorij" at the first floor of the *Diocesan Classical Gymnasium* at *St. Stanislav`s Institution*, Zavod sv. Stanislava, Štula 23, 1210 Ljubljana, Slovenia - EU

#### Monday 22<sup>nd</sup>August

Time	Approx.	Session	Theme	Presenter/Moderator
8-12	30 min	Presentation	Welcome, Introduction	Tine Golež, Simon Zell
	30 min	Discussion	Participants introduce themselves	
	40 min	Presentation	Calculus; from physics	Tine Golež
	15 min	Coffee (app. at 9:40)		
	120 min	Presentation	Calculus; from physics [see Wednesday at 14]	Tine Golež
12-13		Lunch		
13-20	420 min	Excursion (Workshop)	Measurements in real world – field work incorporated into science teaching (tourist) excursion	Gregor Bregar, Tine Golež

# Tuesday 23<sup>rd</sup> August

Time	Approx.	Session	Theme	Presenter/Moderator
8-12	45 min	Presentation	Technology, motivation, teaching	Damjan Kobal
	60 min	Workshop	Hands on simple techno-math ideas	Damjan Kobal
	15 min	Coffee		
	120 min	Workshop-CL	From real to virtual with GeoGebra	Damjan Kobal
12-13		Lunch		
13-15:15	60 min	Presentation	Interdisciplinary teaching involving geometry	Simon Zell
	15 min	Coffee		
	60 min	Presentation	Experiments and concept of variable	Simon Zell
15:15	Free			

# Wednesday 24<sup>th</sup> August: PARALLELE SESSIONS

## **MATH TEACHERS:**

Time	Approx.	Session	Theme	Presenter/Moderator
	60 min	Presentation	Interdisciplinary lessons between mathematics and biology	Simon Zell
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8-12	15 min	Coffee		
	60 min	Workshop	Creating interdisciplinary lessons between math and science	Simon Zell
	45 min	workshop	Creating interdisciplinary lessons between math and science	Simon Zell

## **PHYSICS TEACHERS:**

Time	Approx.	Session	Theme	Presenter/Moderator
8-12	60 min	Presentation	Advanced physics experiments for A-level students	Iztok Kukman, Gregor Bregar
	60 min	Workshop	Advanced physics experiments for A-level students	Iztok Kukman, Gregor Bregar
	15 min	Coffee		
	60 min	Workshop	Advanced physics experiments for A-level students	Iztok Kukman, Gregor Bregar
	45 min	Workshop	Advanced physics experiments for A-level students	Iztok Kukman, Gregor Bregar

## **ALL TOGETHER:**

Time	Approx.	Session	Theme	Presenter/Moderator
12-13			Lunch	
13-15:30	150 min	Presentation, Workshop	towards mathematics	Tine Golež

## Thursday 25<sup>th</sup> August

Time	Approx.	Session	Theme	Presenter/Moderator	
8-12	105 min	Workshop-CL	Learning GeoGebra	Damjan Kobal	
	15 min		Coffee		
	60 min	Workshop-CL	Teaching with GeoGebra	Damjan Kobal	
	60 min	Workshop-CL	Teaching with GeoGebra	Damjan Kobal	
12-13		Lunch			
13-15:30	45 min	Workshop	Lunar parallax – a student math-physics intercontinental project	Tine Golež	
	15 min		Coffee		
	90 min	Workshop	Physics experiments prepared for 2nd and 3rd graders lab-work	Gregor Bregar, Iztok Kukman	
			or Matura Math – final state prepared exam for all secondary school students		
19-	Typical Slovenian dinner				

## Friday 26<sup>th</sup> August

Time	Approx.	Session	Theme	Presenter/Moderator	
8-12	50 min	Presentation	Modelling motion: the case of horizontal launch	Tine Golež	
	40 min	Presentation	Modelling motion: the case of shooting in water	Tine Golež, Gregor Bregar	
	15 min		Coffee		
	40 min	Presentation	Science and/or common sense	Damjan Kobal	
	60 min	Discussion	Final discussion + evaluation	All	
	35 min	Conclusion and farewell		All	
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