

**XII SCUOLA ESTIVA DI FORMAZIONE INTERNAZIONALE
Indagine per la pianificazione: nuove tecnologie e protezione del territorio**

<http://www.coifa.it/itss2021>

ANALISTA TERRITORIALE

**"Gestione dell'informazione territoriale per ottimizzare la pianificazione
territoriale e lo sviluppo sostenibile"**

**Prato, Montorio al Vomano-Teramo, Acerenza, Matera,
Alberobello, Bari**

da martedì 20 a sabato 31 luglio 2021

*in streaming, ci si aspetta la partecipazione di stranieri e italiani che non possono essere presenti a causa
di problemi covid-19*

MARTEDI' 20 LUGLIO 2021 -

Collegio dei Geometri e Geometri Laureati di Prato

via Pugliesi, 26 - Palazzo Vaj, 2° piano - (pernottamento a Prato)

8:30 - 10:30, Punto d'incontro e registrazione XII International Training
Summer School

10:30 - 11:00, saluti dal Presidente Collegio geometri e geometri laureati di
Prato - **Alessandro PIERACCINI**

11:00 - 12:30, programma espositivo di ITSS 2021 e prima lezione teorica
**"Cos'è la FOTOGRAMMETRIA": Software STEREOFOT
transizione dall'era analogica all'era digitale " principi di
base della fotogrammetria architettonica"**
Pietro GRIMALDI

12:30 - 14:00, pranzo leggero

14:30 - 15:30, Welcome and Institutional Communications (*in presenza e in
videoconferenza*)

**ufficiale inaugurazione XII International Training
Summer School**

15:30 – 17:30, prima **sessione Work Shop della Fig Commissione 3 e fig Commissione 8**

"Gestione dell'informazione territoriale per ottimizzare la pianificazione territoriale e lo sviluppo sostenibile"

Hartmut Müller, Presidente FIG Commissione 3 - Gestione dell'informazione territoriale,

Marije Louwsma, Presidente FIG Commissione 8 - Pianificazione territoriale e sviluppo,
serata libera

MERCOLEDÌ 21 LUGLIO 2021 -

PRATO Collegio Geometri e Geometri Laureati, Provincia di Prato
(durante la notte, trasferimento in autobus, da Prato a Montorio al Vomano)

9:00 - 9:30, **Laser Scanner 3D: tecnologia necessaria o complementare?**
attività teoriche e pratiche di Pietro GRIMALDI

9:30 – 11:30, seconda **sessione Work Shop della Fig Commissione 3 e FIG Commissione 8**

"Gestione dell'informazione territoriale per ottimizzare la pianificazione territoriale e lo sviluppo sostenibile"

Hartmut Müller, Presidente FIG Commissione 3 - Gestione dell'informazione territoriale,

Marije Louwsma, Presidente FIG Commissione 8 - Pianificazione territoriale e sviluppo,

12:15 - 15:30 visita a I.G.M Istituto Geografico Militare di Firenze
(via Cesare Battisti 10/12, Firenze)

15:30 - 24:00, tempo libero a Firenze e/o Prato

24:00, trasferimento da Prato all'Hotel Vomano di Montorio al Vomano

GIOVEDÌ 22 LUGLIO 2021 - MONTORIO al VOMANO

(pernottamento a Montorio al Vomano)

9:00 - 10:30, colazione in Hotel Vomano

11:00 - 12:00, cerimonia di apertura dei lavori presso il Convento degli Zoccolanti

Saluti dal Presidente geometri e laureati geometri di Teramo

Cristian GRAZIAPLENA

13:30 - 15:30, pranzo leggero e pausa

15:30 - 18:30, sessioni parallele di rilievo lavori

della Chiesa di San Rocco e "aggregato danneggiato dal sisma" con utilizzo di fotogrammetria architettonica, Georadar-GPR, scanner laser 3D, termografia

18:30 - 20:00, nel tardo pomeriggio libero

20:00 - 21:00, cena

21:30 - 22:30, sessione facoltativa di lavori

rilievo termografico della facciata principale della Chiesa di San Rocco

VENERDI' 23 LUGLIO 2021 - MONTORIO al VOMANO e TERAMO

(overnight in Montorio al Vomano

MONTORIO al VOMANO

8:00 – 9:15, breakfast in Hotel Vomano

TERAMO

ACCA WORK DAY

9:15 – 10:00, transfer from Hotel Vomano, in Montorio al Vomano, to via Alfonso de Albentis 12, Teramo

at College of Surveyors and Graduated Surveyors of Teramo

9:00 – 10:00, **registration of ACCA WORK DAY** (for participants outside the XII International Training Summer School)

10:00 – 10:30, **welcome greeting and start of the works**

10:30 – 13:00, **ACCA WORK DAY** (BIM and MODELING:: didactic program update)

13:30 – 14:30, break and light lunch

15:00 – 18:00, parallel sessions of works

"Cathedral of Santa Maria Assunta" surveys with use of architectonic photogrammetry, Georadar-GPR, 3D laser scanner, thermography

18:00 – 19:30, free time in Teramo

19:30 – 21:00, dinner

23:00 – 23:30, transfer from Teramo to Montorio al Vomano in Hotel Vomano

SATURDAY 24 JULY 2021 - MONTORIO al VOMANO

(overnight in Montorio al Vomano)

7:30 – 9:30, breakfast in Hotel Vomano

9:30 – 11:30, Hotel Vomano

analysis of surveys acquired

11:30 – 13:00, **drones and architectonic surveys - METRIC USE of PHOTOS:**

- **FOTUS (ACCA Software)**
- **StereoFot 2D (COIFA Free Software)**

13:30 – 14:30, break and light lunch

15:00 – 17:00, presentation of participants in XII International Training Summer School and exhibition of personal works

**SUNDAY 25 JULY 2021 – MONTORIO al VOMANO,
SERRACAPRIOLA and ACERENZA**

(overnight in Acerenza)

7:00 – 8:00, breakfast in Hotel Vomano

8:00 – 10:30, transfer from Hotel Vomano, in Montorio Al Vomano, to Marina di Chieti (Km 185; h 2:30)

10:30 – 16:30, stay on the beach and light lunch

16:30 – 17:00, transfer from Marina di Chieti, to Serracapriola (Km 14; h 0:30)

17:00 – 17:30. **welcome greetings from the Mayor of Serracapriola
Giuseppe D'ONOFRIO**

17:30 – 18:00, **Presentation of pilot GIS of Serracapriola
Pietro GRIMALDI**

18:00 – 18:30, **web GIS: Tarakli and Safranbolu
Ayse Guliz BILGIN ALTINOZ**

19:00 – 22:00, transfer from Serracapriola, to Acerenza (Km 185; h 3:00)

22:00, hotel accommodation and light dinner

MONDAY 26 JULY 2021 - ACERENZA

(overnight in Acerenza)

7:00 – 9:00, breakfast in Hotel in Acerenza

day of study

SURVEY and LAND PROTECTION: know the PAST to build the FUTURE

9:30 – 10:00, ***Welcome greetings from the Mayor of Acerenza***

Fernando Teodoro Maria SCATTONE,

10:00 – 10:30, ***List of stereo-photogrammetric surveys of 1980 earthquake in Irpinia***

Stereo-photogrammetric surveys of Cathedral in Acerenza

Pietro GRIMALDI

10:30– 11:00, *coffee break*

11:00 -12:00, ***1980 Earthquake:***

Surveys of Photogrammetric Unit of Local Police of Metropolitan City of Bari and

Course of Architectonic Photogrammetry, University of Bari

Michele PALUMBO, General PhD. Local Police Commander

Metropolitan City of Bari

Vito ANTELMi, Lieutenant (retired) Local Police Metropolitan City of Bari

12:00 – 13:00, ***questions and conclusions***

13:00– 14:00, *lunch*

15:00 – 18:30, ***Georadar-GPR and Cultural Heritage***

survey activity with Georadar-GPR: Cathedral of Acerenza

Pietro GRIMALDI, Luciano D'ANDRIA and GEOSECURE S.R.L.

19:30 – 20:30, *dinner*

TUESDAY 27 JULY 2021 – ACERENZA, MATERA and BARI

(overnight in Bari)

7:00 – 8:00, breakfast at Hotel in Acerenza

8:00 – 9:30, transfer from Hotel in Acerenza to National Archaeological Museum "Domenico Ridola"

9:30 – 10:00, Welcome greetings from National Archaeological Museum "Domenico Ridola"

Anna Maria MAURO,

10:00 – 11:00, "GOM technologies for the Documentation of Cultural Heritage" by Oreste Adinolfi

11:00 – 12:00, " Survey and Prototyping of Cultural Heritage" by FACTO 3D srl

12:00 – 13:00, "GNSS for Land and Hazard Management" by Francesco Vespe, ASI - Italian Space Agency, Space Geodesy Center

13:00 – 13:30, " Illustration of workflow to realize survey "Europe's oldest Synagogue" by Pietro Grimaldi

13:30 – 14:00, transfer to the College of Surveyors and Graduated Surveyors of Matera, via Roma 10

14:00 – 15:00, lunch

15:00 – 15:30, Welcome greetings from President Collegio Geometri eGeometri Laureati, Matera

Giovanni COTRUFO,

15:30 – 18:00, course (theory and practice) of UAVs: survey experience in the "Rione Sassi" by TOPOEXIM

18:00 – 19:00, visit of sites surveyed in previous editions of International Training Summer School:

"Casa Cava", "Palombaro Lungo"

19:00 – 21:00, free evening admiring the "Sassi" of Matera

*21:00 - 22:00, optional session of work - **thermographic survey of "Sassi"***

22:00 – 23:00, transfer from Matera to Campus Hotel in Bari

WEDNESDAY 28 JULY 2021 – BARI and CAPURSO

(overnight in Bari)

7:30 – 9:00, breakfast in Campus Hotel

9:00 – 9:30, transfer from Campus Hotel to “Diocesan Museum” of Bari

9:30 – 10:00, welcome greeting and start of the works

*Priest Michele BELLINO, Director “Diocesan Museum” of Bari
Mario Daniele PICCIONI, Professor Department DICAR,
Politecnico of Bari
Angelo ADDANTE, President of Surveyors and Graduates
Surveyors of Bari*

10:00 – 11:00, “GOM technologies for the Documentation of Cultural Heritage” by Oreste Adinolfi

11:00 – 12:00, “Survey and Prototyping of Cultural Heritage” by FACTO 3D srl

12:00 – 13:00, 3D PRINTING

*“from survey to representation” by Pietro GRIMALDI
(COIFA)*

*“activities 3D representation” by Piero TODARO and Renzo
TRISOLINI (Easy-d-Rom Ltd)*

13:30 – 14:30, light lunch in Campus Hotel

14:45 – 15:00, transfer from Campus Hotel to Materials Laboratory “M. Salvati”

*15:00 – 17:30, Theoretical and practical teaching experience at
“Mario Salvati” materials laboratory of Politecnico di Bari
Mario Daniele PICCIONI and Aginaldo FRADDOSIO*

***Structural monitoring by radar interferometry:
fundamental and applicative issues**
Mario Daniele PICCIONI and Anna CASTELLANO*

CAPURSO

*18:30 – 19:00, transfer from Bari to Capurso at Convent - Sanctuary of the
“Madonna del Pozzo”*

*19:00 – 20:30, welcome greeting from the Rector Guardian, Father
Filippo D'Alessandro*

***illustration of the workflow to realize survey Chapel
"Madonna del Pozzo"***

*performed with Faro FOCUS 3D laser scanner, SCENE software by Piero
Grimaldi, Donato Lorubio (COIFA) and
Piero Todaro and Renzo Trisolini (Easy-d-Rom Ltd)*

20:30 – 21:30, culinary evening of Puglia specialties "panzerotti"

21:30 – 22:00, transfer from Capurso to Campus Hotel

THURSDAY 29 JULY 2021 – ALBEROBELLO

(overnight in Bari)

7:30 – 8:30, breakfast in Campus Hotel

8:30– 9:30, transfer from Campus Hotel in Bari to Alberobello

***9:30 – 12:30, GPR (Ground Penetrating Radar) practical didactic course:
survey of the "foggia" in via Martellotta by GEOSECURE
S.R.L.***

13:30 – 14:30, light lunch

16:30 – 19:30, parallel sessions of works

Laser Scanner 3D:

***survey of the "foggia" in via Martellotta and survey
activities "trullo"***

***19:30 – 20:30, Hall City of Alberobello - Greetings from the Mayor of
Alberobello, Michele Maria Longo***

***Presentation of surveys made in Alberobello and light
dinner***

20:30 – 23:00, free evening admiring the "trulli" of Alberobello

23:00 – 23:45, transfer from Alberobello to Campus Hotel in Bari

FRIDAY 30 JULY 2021 – BARI

(overnight in Bari)

7:30 – 9:00, breakfast in Campus Hotel

***9:30 – 13:00, "Sala Odegitria" in Bari, Parish Cathedral St. Mary of the
Assumption, venerating Saint Sabinus***

***Design Day: analysis of Surveys carried out and proposals
for Design Ideas***

13:30 – 14:30, light lunch

15:30 – 16:30, Sacred Architecture:

visit to the Cathedral of Santa Maria Assunta, veneration of San Sabino

16:30 – 19:00, Presentation of Project Proposals and XII International Training Summer School Results

Stefano BRONZINI, Rettore, University of Bari

Don Franco LANZOLLA, Parson Cathedral of St. Mary of the Assumption

Angelo ADDANTE, President of Surveyors and Graduates Surveyors of Bari

Enrico RISPOLI, Segretario Consiglio Nazionale Geometri, Roma

Ayse Guliz BILGIN ALTINOZ, Department of Architecture, METU - Ankara, Turkey

Mimma PASCULLI FERRARA, LeLiA Department, University of Bari

Adina HORABLAGA, Director of Land Survey and Cadaster Dep. - USAMV of Timisoara,

Cornel PAUNESCU, Faculty of Geology and Geophysics - University of Bucharest, Romania

Florin IMBREA, Dean of the Agricultural Faculty - USAMV of Timisoara, Romania

Antonio ACQUAVIVA, Membro Consiglio Nazionale Geometri, Roma

Ionut SAVOIU, President of UGR, Romania

Closure of works and delivery of participation certificates

Cosmin Alin POPESCU, Rector USAMV of Timisoara, Romania

Pietro GRIMALDI, President COIFA

21:00, dinner at restaurant

SATURDAY 31 JULY 2021 - BARI and ANDRIA

7:30 – 9:30, breakfast in Campus Hotel

10:30 – 13:00, Short trip for scientific and tourist purposes to ,

**Castel del Monte, the 13th century fortress built by
Frederick II of Swabia**

13:00– 14:00, lunch