



Monday, July 15, 2024 – Montorio Al Vomano (Teramo)

Meeting Point

Theoretical Technical Session of PHOTOGRAMMETRY

Official Opening Works

8:00 – 10:30, meeting point of participants at " Ex Convento degli Zoccolanti"

in Via Giuseppe Urbani, 20 – Montorio Al Vomano (Teramo - Abruzzo)

10:30 – 13:00, " Ex Convento degli Zoccolanti"

- Presentation and Program of ITSS 2024



- "PHOTOGRAMMETRY, this unknown!!!"
by *Pietro Grimaldi*
- "Importance of Photogrammetry for the Preservation and Protection of the Memory and the Identity"
by *Lida Mujaj*

13:00 – 14:30, light lunch

14:30 – 17:30, free time for participants of XV International Training Summer School

17:30 – 20:00, Council Hall of the Municipality of Montorio Al Vomano
Institutional Greetings

- **Piero Grimaldi**
- **Fabio ALTITONANTE**, Mayor of Montorio Al Vomano
- **Marco POMPEI**, President of Surveyors and Graduates Surveyors of Teramo

20:30, Dinner

Tuesday, July 16, 2024 – Montorio Al Vomano (Teramo)

ENVIRONMENT and CULTURAL HERITAGE

8:00 – 9:30, breakfast at Hotel Vomano in Montorio al Vomano

9:30 – 10:00, transfer from Hotel Vomano to "ex Convento degli Zoccolanti"

10:00 – 10:30, Analysis of collective institutions in Islamic and pre-Islamic cities
by *Hassan Osanloo*, Soore University, **Teheran, Islamic Republic of Iran**
(online presentation from Tehran)

10:30 – 13:00, *theoretical-practical program in preparation*

13:00 – 14:30, light lunch

16:00 – 19:30, *theoretical-practical program in preparation*

20:30, dinner

Wednesday, July 17, 2024 – Montorio Al Vomano (Teramo)

PHOTOGRAMMETRY: from ANALOG to DIGITAL

8:00 – 9:30, breakfast at Hotel Vomano in Montorio al Vomano

9:30 – 10:00, transfer from Hotel Vomano to "ex Convento degli Zoccolanti"

10:00 – 13:00, architecture surveying at "Church of San Rocco" and
"aggregate damaged by the earthquake"

**The methodology that will be used for the realization of the surveys will be the
"StereoPhotogrammetry", using "stereometric analog camera", "stereo digital camera" and
"StereoFot" software by Pietro Grimaldi**

13:30 – 14:30, lunch

14:30 – 19:30, data processing at "Church of San Rocco" and "aggregate damaged by the earthquake"

*Processing and development of the "stereometric frames" acquired with the
"WILD C120 analogue stereo camera" and the "digital stereo camera".
Online publication with the "StereoFot" software by Pietro Grimaldi*

20:30, dinner

Thursday, July 18, 2024 – Montorio Al Vomano (Teramo)

3D LASER and SLAM scanning techniques

Day open to all members of any College of Surveyors and Graduate Surveyors in Italy:

4CF issued by the College of Surveyors and Graduate Surveyors of Teramo

8:00 – 9:30, breakfast at Hotel Vomano in Montorio al Vomano

9:30 – 10:00, transfer from Hotel Vomano to "ex Convento degli Zoccolanti"

10:00 – 12:00, exposure of the survey carried out with 3D laser scanner

12:00 – 13:30, presentation of SLAM technology

13:30 – 15:00, lunch break

15:00 – 17:30, architectural survey of a "cultural monument" of Montorio Al Vomano

The methodologies and the consequent instruments that will be used to realize the surveys will be
3D Terrestrial Laser Scanner
Simultaneous Localization And Mapping (SLAM)
Thermographic Technique for Surveys
Drone - UAV: presentation of survey operations and processing

17:30, comparison and evaluations with Pietro Grimaldi

Friday , July 19, 2024 – Montorio al Vomano (Teramo) and Latina **SURVEY and DATA PROCESSING**

Day open to all members of any College of Surveyors and Graduate Surveyors in Italy:

4CF issued by the College of Surveyors and Graduate Surveyors of Latina

6:30 – 7:00, breakfast at Hotel Vomano in Montorio al Vomano

7:00 – 10:30, transfer from Hotel Vomano to " College of Surveyors and Graduate Surveyors of Latina "

10:30 – 13:30, Theoretical-practical program in preparation

The methodologies and the consequent instruments that will be used to realize the surveys will be
3D Terrestrial Laser Scanner
Simultaneous Localization And Mapping (SLAM)
Thermographic Technique for Surveys
Drone - UAV: presentation of survey operations and processing

13:30 – 15:00, light lunch

15:30 – 17:30, 3D Laser Scanner Survey for Asset Integrity Management
by Alessandro Nanni and Silvia Alessandri of RAN Innovation Company

17:30 – 18:00, coffee break

18:00 – 19:30, program under development

19:30, dinner

Saturday , July 20, 2024 – Latina **SURVEY, DATA PROCESSING and CULTURAL VISIT**

8:00 – 9:00, breakfast

9:00 – 9:30, transfer from Hotel to " College of Surveyors and Graduate Surveyors of Latina "

9:30 – 12:30, survey data processing

12:30 – 13:30, presentation of site " gps.coifa.it " to adopt a Cultural Heritage

13:30 – 15:00, light lunch

15:00 – 19:30, program under development

Sunday, July 21, 2024 – Latina and Caserta **DAY on the BEACHES of the TYRRHENIAN SEA**

7:30 – 9:30, breakfast

9:30 – 10:30, transfer from Latina to the white sandy beaches on the TYRRHENIAN SEA

10:30 – 17:30, Sun, Sea, Drinks

17:30 – 19:30, transfer to Caserta

19:30 dinner

Monday, July 22, 2024 – Caserta and Avellino **From CLOUD POINTS to BIM MODEL by COIFA and ACCA** ex Caserma Sacchi and Silk Weaving Loom located in San Leucio 7:30 – 9:00, , breakfast in Hotel

9:00 – 9:30, transfer from Hotel to "Collegio dei Geometri e Geometri Laureati di Caserta"

9:30 – 10:30, Greetings and introduction to works

Antonio Santosuosso, President of College of Surveyors and Graduated Surveyors of Avellino

Aniello Della Valle, President of College of Surveyors and Graduated Surveyors of Caserta

Pietro Grimaldi, COIFA President

10:30 – 12:30, case studies relating to surveys with 3D laser scanners of

"ex Caserma Sacchi" and "Silk Weaving Loom" located in "San Leucio" in Caserta:

operational workflow from the digital survey to the point cloud by Pietro Grimaldi and Donato Lorubio,

with subsequent theoretical presentation of the BIM by Nicola Furcolo

12:30 – 13:30, buffet

13:30 – 15:00, transfer from Collegio dei Geometri e Geometri Laureati di Caserta to "ACCA Software" in Contrada Rosole 13, Bagnoli Irpino

15:00 – 17:30, case studies relating to surveys with 3D laser scanners of

"ex Caserma Sacchi" and "Silk Weaving Loom" located in "San Leucio" in Caserta:

creation of the BIM by Giovanni Ciampi

17:30 – 18:00, transfer from ACCA Software to Hotel Restaurant "Zia Carmela" in Montella (Avellino)

19:30, dinner in Hotel Restaurant "Zia Carmela"

Tuesday, July 23, 2024 – Cugno dei Vagni – Nova Siri, Matera and Bari

Inspection in Nova Siri Scalo, at the archaeological excavation of "Cugno dei Vagni"

by Prof. Francesco Martorella.

The archaeological excavation was carried out with 3D laser survey, thermography and GPR-Georadar.

Analysis of data from the archaeological survey at the headquarters of the Faculty of Architecture of the University of Basilicata in Matera

6:30 – 7:30, breakfast at Hotel Restaurant "Zia Carmela"

7:30 – 10:30, transfer from the Hotel Restaurant "Zia Carmela" to archaeological site "Cugno dei Vagni" in Nova Siri Scalo (Matera)

10:30 – 12:30, Practical survey activity in archaeological site "Cugno dei Vagni" with the use of

3D laser scanners, Drone-UAV, Photogrammetry and GPR-Georadar with the supervision of

archaeologists Filomena Guariglia and Paola Iannuzziello

12:30 – 14:00, lunch at Hotel Forastieri, SS106 Km 431, Scanzano Jonico MT

14:00 – 15:30, transfer from the Hotel Forastieri to the Faculty of Architecture in Matera

15:30 – 17:00, Analysis of data from the archaeological survey at the headquarters of the

Faculty of Architecture in Matera by Prof. Antonella Guida and Prof. Francesco Martorella

17:30 – 21:30, free time in Matera

21:30 – 22:30, transfer from Matera to CAMPUS Hotel, via Celso Ulpiani 11, Bari

7:30 – 9:00, breakfast at CAMPUS Hotel

9:00 – 10:30, Theoretical lesson at the Laboratorio Ufficiale Prove Materiali "M. Salvati", Polytechnic of Bari
by D.Camassa, N. Pinchuk, M.D.Piccioni

10:30 – 11:00, transfer from the Hotel Campus to the Cathedral of Bitonto

11:00 – 13:00, Cathedral of Bitonto

• GEORADAR-GPR technology (practical survey activity)

• TERRESTRIAL INTERFEROMETRIC RADAR technology (practical survey activity):

New technologies for dynamic identification of structures based on radar interferometry

by D.Camassa, A.Castellano, A.Fraddosio, N. Pinchuk, M.D.Piccioni (Laboratorio Ufficiale Prove Materiali "M. Salvati")

13:00 – 14:00, break eating "focaccia"

14:00 – 14:30, transfer from Cathedral of Bitonto to the FABLAB Bitonto

14:30 – 16:00, Exhibition of the flow diagram from Survey with 3D Laser Scanner to Prototyping:

"Statue of Ferdinand I of the Two Sicilies in the courtyard of

the Belvedere of San Leucio holding the Leucian codex" and "Prototype"

16:00 – 16:30, transfer from FABLAB Bitonto to SolidWorld Bari

16:30 – 18:00, **Study seminar at SolidWorld Bari**

Preserve cultural heritage with 3D scanning techniques?
by **Renzo TRISOLINI** (SolidWorld)

18:00 – 18:30, **transfer from SolidWorld Bari to the**

Basilica Pontificia Maggiore Madonna del Pozzo patrona, Via Madonna del Pozzo, Capurso

18:30 – 20:00, **Welcome greeting from the Rector Guardian, Father Filippo D'ALESSANDRO**

• illustration of the workflow to realize survey Chapel "Madonna del Pozzo"
performed with laser scanner 3D by Pietro GRIMALDI and Donato LORUBIO (COIFA)

20:00 – 21:30, **culinary evening of Puglia specialties "panzerotti"**

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

Wednesday, July 24, 2024 – Bari, Bitonto and Capurso

Surveys with GEORADAR-GPR and TERRESTRIAL INTERFEROMETRIC RADAR

**Study Day organized by Laboratorio Ufficiale Prove Materiali "M. Salvati",
Polytechnic of Bari**

Thursday, July 25, 2024 – Bari,

7:30 – 9:00, **breakfast at CAMPUS Hotel**

9:00 – 9:30, **transfer from the Hotel Campus to the teaching room of ArCoD Department, Polytechnic of Bari**

9:30 – 12:30, **Analysis of the surveys carried out and**

clarification of technical questions arising during the work of the XV International Training Summer School

12:30 – 13:30, **light lunch**

13:30 – 14:30, **transfer from the Hotel Campus to Alberobello**

14:30 – 16:30, **Visit to Alberobello and analysis of the survey of "Trullo Tinelli"**

16:30 – 17:00, **transfer from Alberobello to "Grotte di Castellana Grotte"**

17:00 – 18:30, **Exhibition of the flow diagram of the survey work,**

of the "Grave" of the "Castellana Caves", in Castellana Grotte:
survey carried out with Laser Scanner 3D and Drone
by *Piero Grimaldi, Donato Lorubio and Dario Daddabbo*

18:30 – 19:00,

19:00 – 20:00, **Ensemble Concert LUCANIA MUSICAE MATER in the "Grave" of the Castellana Grotte**

20:00 – 22:00, **Relaxing evening in Castellana Grotte (programme being defined)**

22:00 – 23:00, **transfer from Castellana Grotte to CAMPUS Hotel**

Friday, July 26, 2024 – Bari

CLOSING WORKS

7:30 – 9:00, **breakfast at CAMPUS Hotel**

9:00 – 9:30, **transfer from Hotel Campus to the**

College of Surveyors and Graduated Surveyors, of Bari, Via Amendola 172/c, Bari

9:30 – 10:00, **Introduction**

• Angelo Addante,

President of College of Surveyors and Graduated Surveyors of Bari

• Cosmin Alin POPESCU

Rector of Banat University of Agricultural Sciences and Veterinary Medicine "King Mihai I of Romania" of Timișoara

• Pietro Grimaldi,

President COIFA (Comitato Internazionale Fotogrammetria Architettonica)

10:00 – 11:00, **"Post-Earthquake Survey and Damage Assessment for Emergency Response,**

Conservation and Rehabilitation of a Multi-layered Heritage Place: Antakya, Hatay in Türkiye"
by *Bilgin Altinoz Ayse Guliz, Professor of Department of Architecture, METU*

11:00 – 12:00, **Technical session regarding the "European Land Registry" coordinated by Prof. Cornel Paunescu**

12:00 – 13:00,

13:00 – 14:00, **savory buffet**

14:00 – 16:30, **free time**

16:30 – 18:30, **Closure of activities and delivery of certificates in the**

Aula Magna "Aldo Cossu", University of Bari, Via Scipione Crisanzio 1, Bari

18:30 – 20:00, cultural visit in "Bari Vecchia", historic center of Bari

Saturday, July 27, 2024 – Bari

8:30 – 9:30, breakfast at *CAMPUS Hotel*

information to participate

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