

KEYNOTE SEMINAR OF  
LOGOPAEDICS AND ORTHODONTICS

Renon, Bozen - Italy, April 23-24-25, 2020  
Hotel Am Wolfsgrubenersee

Special Guest  
Linda D'ONOFRIO

SCIENTIFIC AND  
ORGANIZATIONAL  
SECRETARIAT



STUDIO ODONTOIATRICO  
Dott.ssa Barbara Barbierato

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IN COLLABORATION WITH



The role of  
dental occlusion  
in the phono-  
articulatory  
function

Barbara Barbierato

# BARBARA BARBIERATO

Odontoiatra  
e Logopedista



# PRESENTATION OF THE SEMINAR

BARBARA BARBIERATO, DD, SLP, graduated in Dentistry and Dental Prosthodontics in 1997 at the University of Ferrara, Italy (summa cum laude).

In 1998 she attended a preceptorship in Periodontology at Loma Linda University, California, USA, and a preceptorship in Advanced General Dentistry at the University of California Los Angeles (UCLA).

Since 2003 she has owned her dental office in Costa di Rovigo, Italy, where she has mainly practiced General Dentistry and Prosthodontics.

Over the years she has attended several courses of Restorative Dentistry, Endodontics, Oral Surgery, Periodontics, Prosthodontics, Orthodontics, Oromyofunctional Therapy, Gnathology and Posturology with the best Italian and European teachers.

In 2014 she obtained her second degree in Logopaedics at the University of Ferrara with a thesis entitled: "The role of dental occlusion in the phono-articulatory function" (summa cum laude).

Her main clinical occupation at present is Orthodontics applied to voice, speech and language disorders.

In 2016 her lecture "Phonetics and the future of Orthodontics: curing speech disorders" presented at the University of Vienna, Austria, at the international Forum for Science in Interdisciplinary Dentistry by VieSID - The Slavicek Foundation, was extremely successful.

Since then she regularly presents nationally and internationally on the topic of Orthodontics applied to voice-speech-language disorders.



**LINDA  
D'ONOFRIO**  
Speech and Language  
Pathologist

LINDA D'ONOFRIO, MS, CCC-SLP has a private practice in Portland Oregon focusing in craniofacial disorders, oromyofunctional disorders, dysphagia, and sensory-motor speech disorders.

She completed her undergraduate degree at Texas A&M in English Literature, her post-graduate degree at Portland State University in Speech and Hearing Sciences, and her masters degree at the University of Oregon in Communication Disorders. She then completed her medical externship at the Oregon Health Sciences University Medical Center with a focus on inpatient neurological acute care and outpatient cognitive rehabilitation, and then her clinical fellowship at the Oregon VA Medical Center with a focus on dysphagia, aphasia, brain injury, and head and neck cancer.

She is a past president of the Oregon Speech-Language Hearing Association, she is the administrator of the Oromyofunctional Study Group on Facebook, and she presents internationally on craniofacial development and function.

The relations between Orthodontics and Logopaedics are a very complex and fascinating topic.

Since the sixties and seventies of the last century, the most attentive Orthodontists, aware of the limits of a purely mechanical orthodontic approach, have sought the collaboration of Speech Therapists to reeducate oral muscles in order to improve and stabilize the effects of their therapies.

Since then much energy has been spent try to understand the relationships between occlusion and swallowing, occlusion and posture, and occlusion and breathing.

Speech, although mainly occurring in the mouth, has remained the less known somatic oral function both in the dental and the phoniatic/logopedic field. The philosophical and biological complexity linked to the articulatory gestures have, in fact, deeply slowed the understanding of the delicate mechanisms of verbal production as a whole.

Driven by a deep passion for singing and functional orthodontics, after many years of solitary study, meditations and research, thanks to an integrated multidisciplinary approach, I have finally managed to outline the complex pattern of interactions between the voice, the articulatory oral gestures and the oral environment in which these are performed.

This seminar has given me so far the joy of sharing with many colleagues dentists, orthodontists, speech-language pathologists, ENTs, physiotherapists and osteopaths the enthusiasm of a new vision of dental occlusion and the opportunity to lay the foundations for a deep and concrete interdisciplinary discussion on the pathophysiology of the ultimate human function: speech and language.

When I found out that the famous American SLP Linda D'Onofrio, major specialist in the world of oromyofunctional disorders, was preparing a course entitled "How oral motor impacts articulation and language" I couldn't resist and I did everything to engage with her. And she flattered me with the honour of accepting the engagement.

Linda and I share the belief that the paradigm by which speech articulation and language development are purely cognitive and innate functions, not conditioned by oral muscular and skeletal structure, must be necessarily and urgently revised.

During the seminar dentists and orthodontists will acquire new essential information to restore a truly functional dental occlusion, suitable for all oral functions, speech included, and therefore stable; speech therapists will better understand the anatomical basis and the pathogenetic mechanisms of the most challenging dysfunctional situations they face every day: phonetic and phonological disorders, dysfunctional dysphonia, stuttering and dyslexia.

Speech is the ultimate human function. Knowledge of speech is illuminating, strengthening and deeply rewarding for every human being. Linda and I know something about it.

*Barbara Barbierato*

# DETAILED PROGRAM

## DAY 1 (Thursday April 23, 9 a.m. - 6 p.m.)

### **How oral motor impacts articulation and language: interview with Linda D'Onofrio**

Re-education of oral functions related to occlusal rehabilitation: practical and theoretical limits of the classical oromyofunctional approaches

Beyond swallowing. Integrated oral functions: breathing, phonetics, mastication, mimics, posture

From linearity to complexity: elements of the systems theory

Pathology, physiology, paraphysiology and normality

The concept of affordance and affordable occlusion

Speech, language, phonetics, phonology

Speech learning: the phono-gestural match and the phonetic-phonological match

## DAY 2 (Friday April 24, 9 a.m. - 6 p.m.)

Functional anatomy of voice and speech: the respiratory apparatus, the larynx and the vocal tract

Articulatory phonetics: philosophical and biological complexity

Physiology of vowels and consonants production: ventilation, phonation, articulation, resonance

Acoustic target, articulatory target and articulatory variability

Ideal speech gestures vs compensatory speech gestures

From single sounds to words: coarticulation and target undershoot

Relations between articulatory phonetics and dental occlusion

Statics, kinematics and freedom of movement of the tongue



Clinical evaluation of dental occlusion in relation to articulatory gestures: simplified method to determine if and how much palatal expansion is needed for physiological speech

Statics, kinematics and freedom of movement of the lips and the velum

## DAY 3 (Saturday April 25, 9 a.m. - 6 p.m.)

Focus on dental occlusion: normality, physiology and pathology of dental occlusion

The philosophical problem of the inter-maxillary relation: maximum intercuspation vs diagnostic/therapeutic mandibular reference position

The mandibular function in speech: functional phonetic diagram and closest speaking space

The proprioceptive role of the skeletal articulatory organs: teeth, alveolar process, palate

Neurophysiology of speech: the sensory-motor circuit and speech motor control based on feedback and feedforward

Malocclusion from a neurophysiological perspective: dental interferences, mandibular avoidance patterns and their systemic consequences

The role of the dentist/orthodontist in the treatment of speech and voice disorders: ideal occlusal requirements for a physiological phono-articulatory function (the affordable occlusion)

Two clinical cases: Frank Sinatra and Freddie Mercury

Discussion

# GENERAL INFORMATION

The seminar is aimed at General Dentists, Orthodontists, Pediatric Dentists, Speech-Language Pathologists (SLPs), Phoniatrists, ENTs, Psychologists, Pediatricians, Physiotherapists, Osteopaths, Optometrists.

It will be held in 3 days for a total of 21 hours:  
Thursday April 23, 2020 from 9 a.m. to 6 p.m.

Friday April 24, 2020 from 9 a.m. to 6 p.m.

Saturday April 25, 2020 from 9 a.m. to 6 p.m.

Training credits are not planned for this event.

## Scientific and Organizational Secretariat

For information and registrations:

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tel. (office): +39 0425 497129 cell.: +39 320 0985331

e-mail: b.barbierato@libero.it

## Registration fee

€ 700,00 + VAT where required.

## Registration and Payment Mode

Send the registration form filled in all its parts and signed at: b.barbierato@libero.it;

wait for confirmation and instructions for the bank transfer;

send the receipt of the bank transfer at: b.barbierato@libero.it

Bank transfer in favor of: Dr. Barbara Barbierato

IBAN: IT 62 Y 02008 12210 000010073378

BIC/SWIFT: UNCRITM1R16

Reason for payment: Your name, English Edition Renon 2020

## Venue of the Event

Hotel Am Wolfsgrubenersee

Costalovara 14

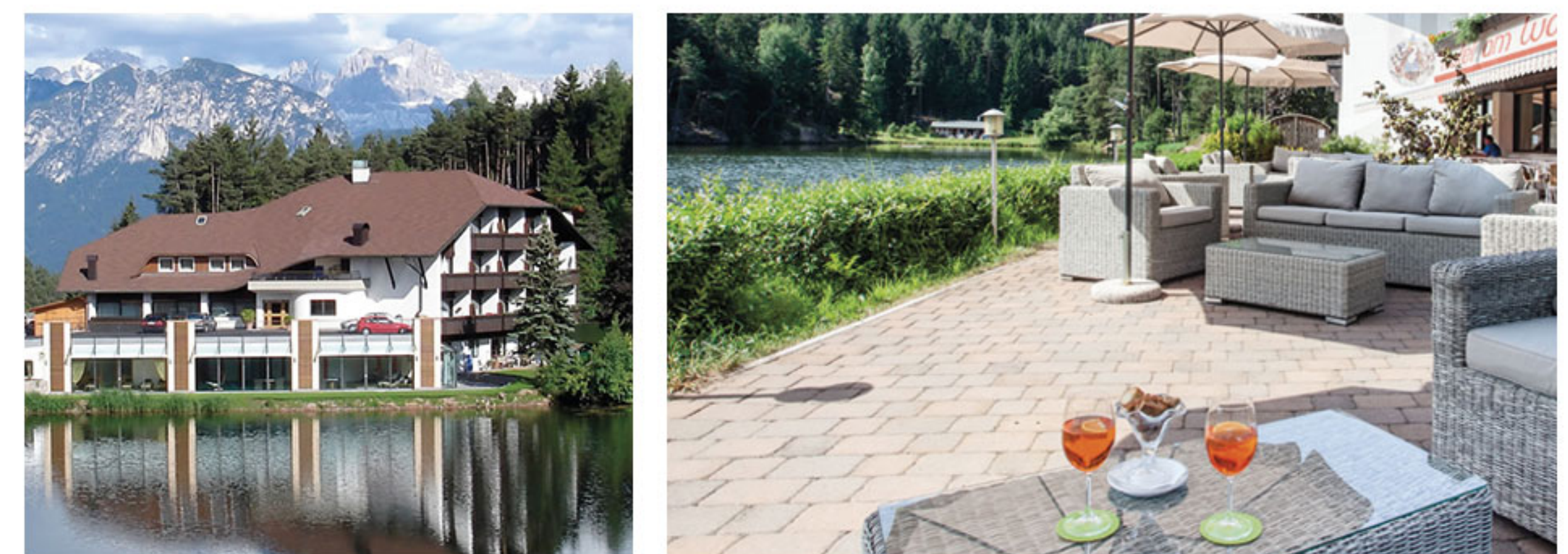
39054 Soprabolzano

Renon - (Bozen, Italy)

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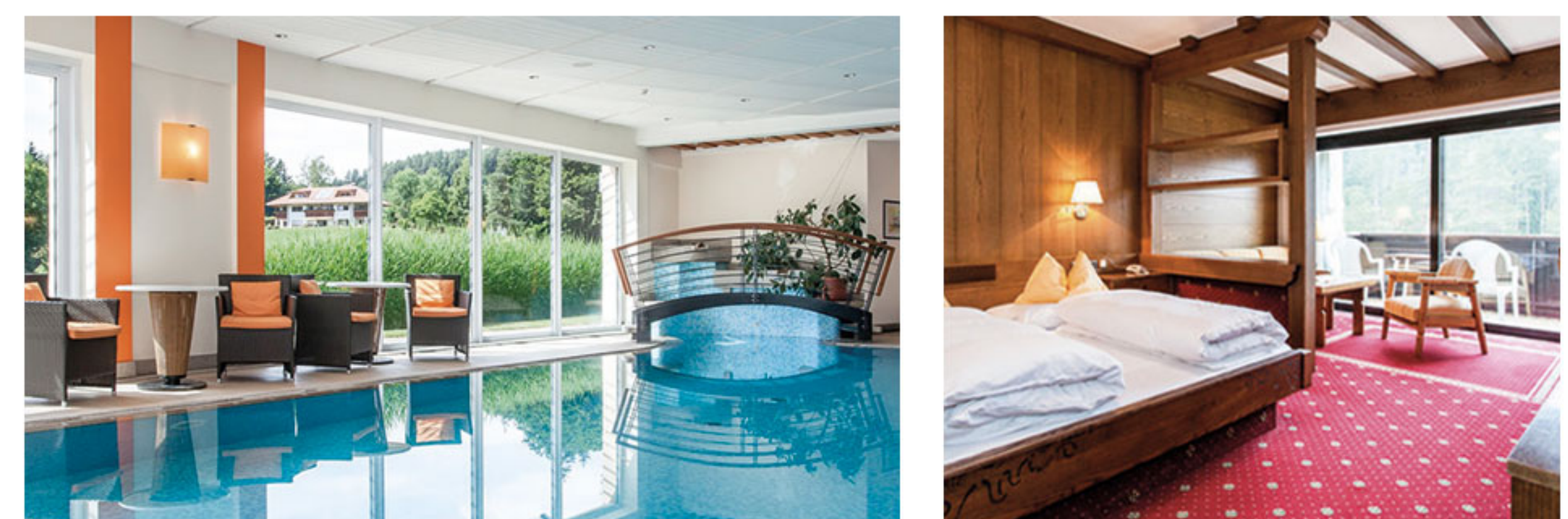
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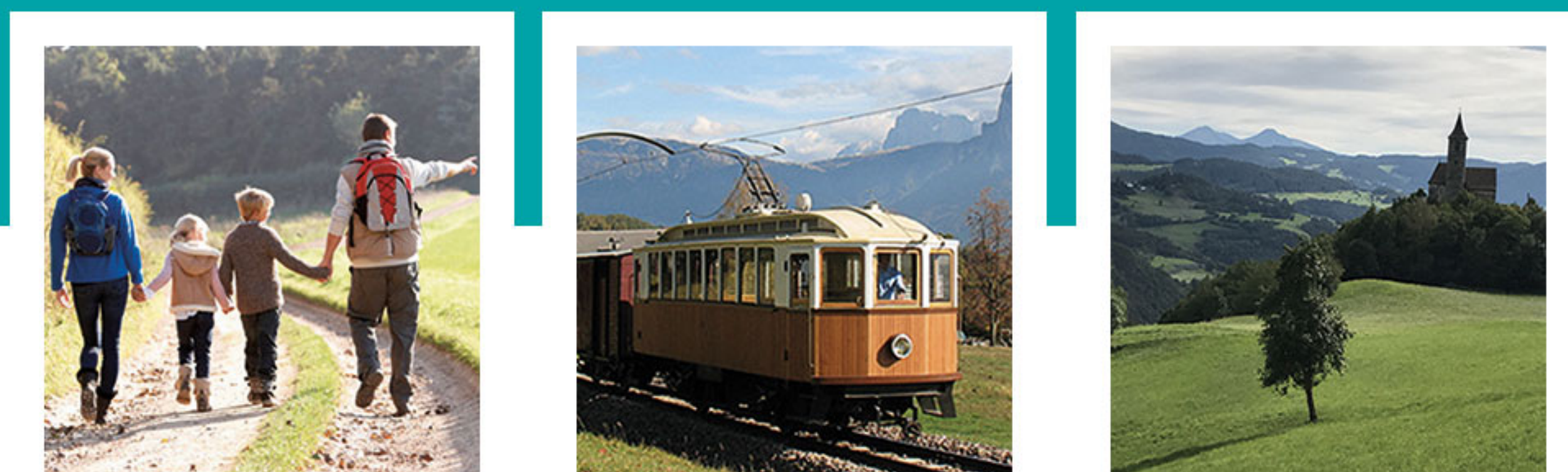
## Overnight Stay

Hotel Am WolfsgrubenerSee (3 Stars Superior). Exclusive offer for participants and their companions during the three days of the seminar: full board treatment including overnight stay, breakfast, lunch, dinner, use of SPA and pool, free parking, Ritten Card.

Available offers for stays from Sunday April 19 to Sunday April 26 or longer, including a tour of the Dolomites and a winery visit with wine tasting. For further information and booking contact the hotel directly.



# RENON, SOUTH TYROL, ITALY



Renon (in German Ritten) is a wonderful plateau just above Bolzano, Bozen. Since the beginning of '900 it's the historic holiday place of the noble families living in Bozen and today it's a favorite holiday destination of families, hikers and relaxation lovers.

In this area of rare beauty, overlooking the Dolomites, between breathtaking views and sweet slopes caressed by the sun, artists and philosophers have found inspiration and serenity over the years.

I would like this seminar to represent for all of us not just a moment of study or work, but also an opportunity of pleasure and relaxation, maybe to share with family or friends.

The Hotel Am Wolfsgrubenersee, on the shores of the enchanting pond of Costalovara (Wolfsgruben), is the ideal place to combine utility with pleasure: the beauty and tranquility of the place, the comfort of the rooms, the quality of the kitchen, the friendliness of the hoteliers, the advantages of the Ritten card and, above all, the magic of the SPA by the lake... these are all reasons that will make you fall in love with this place.

Renon and the Hotel Am Wolfsgrubenersee are easily reachable by public transport (train to Bozen, cable car from Bozen to Soprabolzano - Oberbozen, historical train of Renon - stop at Wolfsgruben). With the convenient Rittencard which you'll be given for free at the hotel, you will be able to travel for free on all public transport all over South Tyrol for the whole length of your journey.

For more information don't hesitate to contact me!  
I'm looking forward to meeting all of you and Linda D'Onofrio up there!!

*Barbara Barbierato*

# REGISTRATION FORM

Send the registration form filled in all its parts and signed at: [b.barbierato@libero.it](mailto:b.barbierato@libero.it)

## Seminar: Renon April, 23-25 2020

Surname: \_\_\_\_\_

Name: \_\_\_\_\_

Profession: \_\_\_\_\_

Place and date of birth: \_\_\_\_\_

Mobile: \_\_\_\_\_

E-mail: \_\_\_\_\_

## Billing Data

Business name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_

State.: \_\_\_\_\_

Postal code \_\_\_\_\_

Fiscal code: \_\_\_\_\_

VAT number: \_\_\_\_\_

I authorize the processing of my personal data pursuant to EU Regulation 2016/679 (GDPR) for:

- organizational, informational and tax purposes;
- inclusion in the Whatsapp group of the course;
- photos and videos taken during the course for promotion purposes.

Date: \_\_\_\_\_

Signature: \_\_\_\_\_