

SCIENTIFIC PROGRAM



TUR2021

3rd International Conference on Tourmaline

SEPTEMBER
09 - 11, 2021
Elba Island

«Black cap» tourmaline with lepidolite. Grotta d'Oggi, Elba Island.
Crystals up to 1.5 cm. Photo A. Miglioli



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Conference overview

September 8

Pre-Conference field trip

18:30-20:00 Icebreaker party and Conference registration
at *De Laugier* Cultural Center, Portoferraio

September 9, 10, 11

TUR2021 Conference
at *De Laugier* Cultural Center, Portoferraio

September 9

22:15-22:45 Visit to MUM, Mineralogical Museum
Luigi Celleri, San Piero in Campo

September 10

Social dinner at *La Rada* restaurant, Portoferraio

September 12, 13

Post-Conference field trip

Thursday 9



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09:00-09:30 *Participants registration*

09:30-10:15 *Opening*

Session chair: Bosi F.

10:15-11:00 *Plenary:* Novák M.
Tourmalines and pegmatites

11:00 *Coffee break*

Session chair: van Hinsberg V.J.

11:30-11:45 Filip J.

11:45-12:00 An overview of environmental/industrial applications of tourmaline
Setkova T.
Crystal growth and Raman spectroscopy of Ga, Ge-rich tourmaline

12:00-12:15 Chernyshova I.
Calculation of the pyroelectric coefficient of tourmalines from single
crystal X-ray data

12:15-12:30 Mrkusová E.
Preliminary results of electron microprobe quantification of the Fe oxidation
state in tourmalines

12:30-12:45 Bačík P.
Tetrahedral substitutions in tourmaline-supergroup minerals from the
bond-topological and bond-valence perspective

12:45-13:00 Cámara F.
Anorthoschors from Langesundsfjord (Norway)

13:00 *Lunch*

Thursday 9



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Session chair: Trumbull R.B.

- 14:30-14:45 Taylor M.C.
Petrogenesis of tourmaline-bearing NYF, LCT, and mixed NYF-LCT granitic pegmatites of the Peninsular Ranges Batholith, southern California, USA
- 14:45-15:00 Cempírek J.
Tourmaline in the elbaite-subtype pegmatites from the Czech Republic: towards the general evolution trends
- 15:00-15:15 Novotný F.
Tourmaline evolution in a P, F-rich elbaite-subtype pegmatite
- 15:15-15:30 Altieri A.
Color anomalies at the termination of pegmatitic gem-tourmaline crystals from Elba Island (Tyrrhenian Sea, Italy): a genetic model
- 15:30-15:45 Moggi Cecchi V.
The “Elbana” mineralogical collection of the Natural History Museum of the University of Florence, Italy
- 15:45-16:00 Kubernátova M.
Crystal chemistry of natural Pb-rich tourmalines
- 16:00 *Coffee break*

Session chair: Andreozzi G.B.

- 16:30-17:00 *Keynote:* Henry D.J.
Tourmaline crystallography, crystal chemistry and nomenclature: current status

Session chair: Tanelli G.

- 21:30-22:15 *Plenary:* Pezzotta F.
Elba tourmalines, over two centuries of collecting and scientific research
- 22:15-22:45 *Visit to MUM – Mineralogical Museum Luigi Celleri, San Piero in Campo*

Friday 10



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3rd International Conference on Tourmaline

09:30-09:45 *Late participants registration
and social dinner booking*

Session chair: Cempírek J.

09:45-10:15 *Keynote: van Hinsberg V.J.*

Tourmaline elemental partitioning with melts, fluids and minerals: how to interpret tourmaline (trace element) composition

10:15-10:30 Uher P.

Rare lithophile elements (Zr, Hf, Nb, Ta) in tourmalines from granite-pegmatite suites

10:30-10:45 Ondrejka M.

Remobilization of B, Be and REE in Veporic granites: late-magmatic formation of tourmaline and neoblastic development of hellandite-(Y) + hingganite-(Y) reaction coronae around xenotime-(Y) during granite mylonitization

10:45-11:00 Bermanec M.

Creating a comprehensive, standardized dataset of tourmaline geochemical analyses integrating localities and petrogenesis

11:00 *Coffee break*

Session chair: Marschall H.R.

11:30-11:45 van Hinsberg V.J.

Tourmaline reference materials for trace element analyses: a progress update

11:45-12:00 Vereshchagin O.

Towards tourmaline REE pattern explanation

12:00-12:15 Celata B.

Tourmaline breakdown: preliminary results from experimental studies

12:15-12:30 Tribaudino M.

Thermal expansion of tourmaline: a systematic investigation

12:30-12:45 Roozen S.

A thermodynamic model for Li-free tourmaline

12:45-13:00 Ertl A.

Why was it not possible to synthesize Li-rich tourmaline?

13:00 *Lunch*



Session chair: Dini A. and Pezzotta F.

- 14:30-15:00 *Keynote:* Dutrow B.L.
Petrogenetic utility of magnesian tourmaline: extraordinary origin of everyday tourmaline
- 15:00-15:15 Sęk M.P.
Tourmalines from the eastern metamorphic cover of the Karkonosze granite: an evolution model
- 15:15-15:45 *Guest speaker:* Rustemeyer P.
Inner structures of tourmaline crystals
- 15:45-16:00 *Guest speaker:* Rustemeyer P.
About the aesthetics of tourmaline slices and “TourmalineArt”
- 16:00 *Coffee break*

Poster Session 16:30 – 17:30

Cruz M.F.

Does silicate-borosilicate melt immiscibility occur in natural settings? An assessment based on experimentally synthesized tourmaline nodules

Drivenes K.

Sn-rich tourmaline from the Land's End granite, SW England

Fridrichová J.

Spectroscopic and crystal-chemical study of brown, red and green magnesium-dominant tourmalines

Hreus S.

Li,Be-cordierite + tourmaline assemblage in rare-element pegmatites

Kardošová P.

Crystal-chemical effects of heat treatment on Mg-dominant tourmalines

Lussier A.J.

Oscillatory zoned liddicoatite from Anjanabonoina, central Madagascar: trace element patterns determined by LA-ICP-MS

Urbanová S.

Evolution of tourmaline from Li-poor, F-rich pegmatites at the SE border of the Moldanubian Zone, Bohemian Massif

Saturday 11



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Session chair: Novák M.

- 09:30-10:00 *Keynote:* Marschall H.R.
Tourmaline isotopes – ten years left behind
- 10:00-10:15 Dini A.
Boron, oxygen and hydrogen isotope composition of zoned tourmalines from the Monte Capanne miarolitic LCT pegmatite field
- 10:15-10:30 Korsakov A.
B-isotopic study of maruyamaite from the new locality within the Kokchetav massif
- 10:30-10:45 Xu J.
Tourmaline and white mica boron isotopes in pelitic schist from the Chinese southwestern Tianshan: insight into subduction-zone fluid flow
- 10:45-11:00 Skřápková L.
The role of oxy-tourmalines and metasomatic mixing in evolution of lepidolite-subtype pegmatites
- 11:00 *Coffee break*

Session chair: Bačík P.

- 11:30-11:45 van der Does L.M.
Quartz-tourmaline intergrowths in the wall zone of the Emmons Pegmatite (Maine, USA)
- 11:45-12:00 Falster A.U.
Fluor-Elbaite tourmaline from the Emmons pegmatite, Greenwood, Oxford Co., Maine
- 12:00-12:15 Bermanec V.
Pegmatite occurrences in Moslavačka gora, Northern Croatia
- 12:15-12:30 Gadas P.
Tourmalines from exocontact and endocontact zones from the Manjaka pegmatite, Sahatany Valley, Madagascar
- 12:30-12:45 Henry D.J.
Tourmaline-quartz development across the magmatic-to-hydrothermal transition in peraluminous granites from NW Argentina
- 12:45-13:00 Codeço M.S.
Insights into the magmatic-hydrothermal evolution at the Panasqueira W-Cu-Sn deposit, Portugal from chemical and B-isotopic studies of tourmaline and white mica: a review
- 13:00 *Lunch*

Saturday 11



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Session chair: Filip J.

- 14:30-15:00 *Keynote:* Slack J.F.
New perspectives on the origins of stratiform tourmalinites
- 15:00-15:15 Hohf M.
Tourmaline breccias in the Río Blanco-Los Bronces porphyry Cu-Mo district, central Chile: a geochemical and stable isotope study
- 15:15-15:30 Fischer B.
Differentiating tourmaline species via reflectance Spectroscopy: enhancing tourmaline as a mineral vector in ore deposits
- 15:30 *Coffee break*

Session chair: Macrì M.

- 16:00-16:30 *Keynote:* Laurs B.M.
Tourmaline as a gem: varieties, origin determination and future challenges for gem-testing laboratories
- 16:30-16:45 Sun Z.
A simplified species classification for gem quality tourmaline by LA-ICP-MS
- 16:45-17:15 *Keynote:* Groat L.A.
Gem deposit research and implications for exploration
- 17:15-17:30 Macrì M.
Gemology vs Mineralogy: problems, solutions and opportunities
- 17:30 *Summary and closing*