

# 5th

## ANNUAL IGCP-510 PROJECT MEETING

**A-TYPE GRANITES AND RELATED MINERALIZATION IN  
THE TETHYAN BELT (FROM PYRENEES THROUGH  
TURKEY TO INDONESIA)**



**September 27, October 03, 2009**

**Convention Center  
Tunceli University, Tunceli-Turkey**



**Tunceli University**



**Mugla University**

# 5th Annual Meeting of the IGCP-510 Project

## Sample Sessions from Previous Year

**September 1-7, 2008:** Field trip "The Permian-Triassic A-type volcanic-plutonic igneous suite of Corsica", Corsica, France

**August 7-8, 2008:** Meeting "Granite Classification – a Never-ending Problem" 33<sup>rd</sup> IGC, Norway Convention Centre, Lillestrøm, Norway

**August 1-5, 2008:** Field trip: "Alkaline rocks of the Oslo Rift, SE Norway: A field trip with emphasis on felsic to intermediate intrusive rocks and their associated mineralizations", Oslo region, southern Norway



The previous meeting of the IGCP-510 Project came about through a combination of alkaline suites and associated ore deposits in Turkey, and The Council of the IGCP-510 Project decided at their last annual Meeting in Norway, 2008, to accept to host the next Annual Meeting in Tunceli (Turkey). A structure for the meeting and the membership of the Honorary Advisory and Organizing Committees had already been determined by a core group from the Turkish team.

The 5<sup>th</sup> Annual Meeting "**A-TYPE GRANITES AND RELATED MINERALIZATION IN THE TETHYAN BELT (FROM PYRENEES THROUGH TURKEY TO INDONESIA)**" under the umbrella of the IGCP-510 Project is dedicated to the problems of the origin, differentiation, classification and ore potential of alkaline magmatic systems in diverse geodynamic regimes and regions with a special emphasis on the Turkish Tethyan Collage. Multidisciplinary research is welcomed to elucidate the role and origin of enriched mantle reservoirs, large alkaline provinces of continents and oceans, and the alkaline rocks and mineralized alkaline suites of the oceanic regions.

The meeting is arranged in cooperation with IGCP-510 Project, Tunceli University (Tunceli, Turkey) ([www.tunceli.edu.tr](http://www.tunceli.edu.tr)) and Department of Geological Engineering, Mugla University (Mugla, Turkey) ([www.mu.edu.tr](http://www.mu.edu.tr)).

We invite all academic and professional geologists, geochemists, mineralogists and economic geologists to come to this annual meeting of the 5<sup>th</sup> IGCP-510 project in Tunceli (Turkey) to discuss current research under the general theme: A-type Granites and Related Rocks Through Time, and A-Type Granites and Related Mineralization in the Turkish Tethyan Collage

## WHAT DO WE EXPECT TO COVER?

- How A-type granites and related rocks are formed through time?
- Initiation, evolution and origin of large alkaline igneous provinces
- When did alkaline magmatism and related ore-forming processes begin? How long they lasted? Contributions from radiometric dating in Turkish Tethyan Collage
- How and under what processes ore-bearing alkaline magmatic systems were formed: Anatomy and magmatic-hydrothermal evolution
- Geodynamics and alkaline provinces
- What are the significant types of mineralization in alkaline systems? Fe-Oxide Cu-Au Deposits (The Candelaria - Ernest Henry - Olympic Dam Family, Hasancelebi, Divrigi ironoxide deposits)

## Get Continual Updates from the Web

Please take advantage of our online webpage by visiting the IGCP home page at: <http://www.igcp-510.org/>

A registration form and other conference materials, such as a list of preliminary topics, a link to the organizing committee, and links to last year's sessions, can also be found on the website. Visit the site from now until the week of the conference for continual updates on schedules, speakers, etc.

# 5th Annual Meeting of the IGCP Project

## ORGANIZING COMMITTEE

Prof. Dr. Durmuş Boztuğ (*Chairman*)  
(President of the Tunceli University, Turkey)  
[boztug@cumhuriyet.edu.tr](mailto:boztug@cumhuriyet.edu.tr), [durmus.boztug@gmail.com](mailto:durmus.boztug@gmail.com)

Prof. Dr. Şener Oktik (*Honorary Chairman*)  
(President of the Mugla University, Turkey)  
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Prof. Dr. Nilgün Güleç (Middle East Technical University, Turkey)  
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Prof. Dr. Roberto Dall'Agnol (Chairman of the IGCP-510 Project)  
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Prof. Dr. Carol D. Frost (University of Wyoming, USA)  
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Prof. Dr. Tapani Rämö (University of Helsinki, Finland)  
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Asst. Prof. Dr. Gonca Kuşcu (Mugla University, Turkey)  
[gkuscu@mu.edu.tr](mailto:gkuscu@mu.edu.tr), [gkuscu@eos.ubc.ca](mailto:gkuscu@eos.ubc.ca)

### Secretariat

Assoc. Prof. Dr. İlkay Kuşcu (Mugla University, Turkey)  
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### Social Affairs

Assoc. Prof. Dr. Ayten Önal (Tunceli University, Turkey)  
[aonal@inonu.edu.tr](mailto:aonal@inonu.edu.tr)

Tulay Şaroğlu (Tunceli University, Turkey)  
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Bünyamin Akgül (Tunceli University, Turkey)  
[akgul@tunceli.edu.tr](mailto:akgul@tunceli.edu.tr)

### Sponsors

Tunceli University, IGCP-510 Project, UNESCO, IUGS, TUBITAK

## Important Dates

Monday, August 31, 2009  
Dead-line for abstract submission

Monday, August 31, 2009  
Last day of cancellation and refund

Saturday, September 26, 2009  
Arrival in Ankara

Sunday, September 27, 2009  
Registration and icebreaker party

September 27-28, 2009  
Pre-meeting excursion

September 29-30, 2009  
Registration and Scientific Sessions

October 01-03, 2009  
Post-meeting excursion

October 04, 2009  
Departure from Ankara

## Climate and Weather

Tunceli in the early autumn can be warm and dry with the risk of the occasional thunderstorm, but remember that we have a continental climate in Tunceli which is rather less predictable than maritime climates. Bring a raincoat and umbrella, just in case! for pre- and post-meeting excursions.

# 5th Annual Meeting of the IGCP Project

## Thematic Sessions

1. General contributions to A-type granites and related rocks through time
2. Large Alkaline Igneous Provinces: Initiation, evolution and origin
3. Timing, genesis and duration of alkaline magmatism in Turkey
4. Geodynamics and alkaline provinces
5. Timing and duration of alkaline magmatism and related ore-forming processes: contributions from radiometric dating in Turkish Tethyan Collage
6. Ore-bearing alkaline magmatic systems: anatomy and magmatic-hydrothermal evolution
7. Open and Poster sessions

## SCIENTIFIC PROGRAMME

### Sessions

There will be two days of oral and poster presentations on September 29-30, 2009 at the Convention Center, Tunceli University. The opening half day will be devoted to Keynote speakers. There will be 6 keynote speakers on the theme "A-type Granites and Related Rocks Through Time". Oral and poster presentations will follow immediately after the Keynote talks.

As in past years, additional events will take place in conjunction with the meeting, including two field trips, a pre-meeting excursion to renown ruins in central Turkey and the Cappadocia region (September 27-28, 2009) and a post-meeting field trip to the Cretaceous alkaline intrusions, associated Fe-oxide, Cu-Mo porphyry and F-Mo-Pb-Zn mineralization, and the central Anatolian ophiolite (October 1-3, 2009) will also be arranged. The preliminary agenda and background information is available at the meeting website at <http://www.igcp-510.org/>

## ABSTRACTS VOLUME

The abstracts selected for presentation will be published in the Abstracts Volume which will be distributed to all those registered for the meeting and which is included in the registration fee. We are planning to publish the papers presented during the meeting in an *International Journal as a Special Volume* Devoted to A-type granites and related rocks through Time.

## OFFICIAL LANGUAGE

English

### REGISTRATION

Please visit <http://www.igcp-510.org/> for further information and registration

Conference office for messages during the conference: +90 (533) 339 1451 or +90 (533) 350 7869

#### Contact Persons

Dr. Ilkay Kuşcu (Department of Geological Engineering, Mugla University, TR-48100 Mugla, Turkey) [ikuscu@mu.edu.tr](mailto:ikuscu@mu.edu.tr), [ikuscu@eos.ubc.ca](mailto:ikuscu@eos.ubc.ca)

Gonca Kuscu (Department of Geological Engineering, Mugla University TR-48100 Mugla, Turkey) [gkuscu@mu.edu.tr](mailto:gkuscu@mu.edu.tr), [gkuscu@eos.ubc.ca](mailto:gkuscu@eos.ubc.ca)

The Final Circular will be issued only in electronic format to those who have registered. It can also be downloaded from the web-site.

## Cancellation

Cancellation must be made in writing to the Organizing Committee. A refund of 80% of the total amount paid will be made on cancellations before August 31, 2009. Unfortunately, it is not possible to offer refunds after this date. If an excursion fails to run because it is not viable or for any other reason, full refunds will be given of the fees paid.

## INSURANCE

No travel insurance is being arranged for any of the conference or field excursion participants. All participants are reminded that they should organize their own personal insurance for all aspects of the conference and field excursions including travel to and from the venues. The Organizing Committee and excursion leaders and anyone else connected with organizing and running the conference and field excursions shall accept no responsibility whatsoever for any damage, loss, personal injury or death suffered by any participant during the conference and field excursions or in travel to and from the conference and field excursions.

## REGISTRATION FEES [for payment Before August 15<sup>th</sup>, 2009]

**Meeting:** 150 Euros for participants and 25 Euro for accompanying persons

**Pre-meeting Excursions:** 250 Euros (including airfare, hotel and meals)

**Post-meeting excursion:** 300 Euros (including airfare, hotel and meals)

## PAYMENT OF FEES

Please note that all payments must be made in Euro and be free of bank charges to the Conference Organisers. Please ensure that the participant's name is clearly attached and legible so that the payment is registered correctly. There are three methods of payment:

### 1. **Bank/wire transfer to:**

Account name: Durmus Boztug

Name of the Bank and branch code: Ziraat Bank Tunceli Branch

IBAN no : TR49000100029839871338- 5006 (Euro account)

: TR76000100029839871338-5005 (USD account)

Address: Moğultay Mah. Okullar Cad. No 2 62000 Tunceli, Turkey

Please annotate with 5<sup>th</sup> Meeting of the IGCP-510 Project, Tunceli-Turkey and your family name.

### 2. **Bank cheque or draft in Euro** made out to Tunceli University

[Eurocheques not accepted]

Please annotate with 5<sup>th</sup> Meeting of the IGCP-510 Project, Tunceli-Turkey and your family name

### 3. **Credit card** payment by Visa, or Mastercard only. Please fill in the authorization in the registration form

Please annotate with 5<sup>th</sup> Meeting of the IGCP-510 Project, Tunceli-Turkey and your family name

# 5th Annual Meeting of the IGCP Project

## Making Your Hotel Reservations

(Please Read Carefully)

The **Organising Committee** will provide accommodations upon request from the participants. Please refer to the preliminary registration form and schedule of events in this flyer when making your hotel reservation for pre-, post-meeting and meeting.

Single rooms in Tunceli are priced at 70 liras per night and twin rooms at 50 Liras per night, both inclusive of full Turkish breakfast and VAT. All rooms are fitted with hand washbasins and full bathroom facilities. The hotels in Ankara and Elazig are 3 to 4-stars bed and breakfast hotels with wireless internet. Reservations for lodging must be made before 16:59 PM local time on Tuesday, September 15, 2009.

Please quote your attendance at 5<sup>th</sup> Meeting of IGCP-510 Project on all correspondence with the vacation and accommodation office through

Dr. Gonca Kuscu at [gkuscu@mu.edu.tr](mailto:gkuscu@mu.edu.tr)

Dr. Ayten Onal at [aonal@inonu.edu.tr](mailto:aonal@inonu.edu.tr)

You will need to provide a personal credit card number to guarantee your room.

## Directions to Tunceli via Ankara

### Getting There by Air

Tunceli has no international and domestic airport. Therefore, the participants are kindly requested to arrive to Ankara Esenboga Airport.

### Ground Transportation to the Hotel From the Airport

**Taxi:** Taxi fare is approximately 80.00 TL one way from the airport to the city center (Ankara). Pickup is on, Ground Level, on both the A and B sides of the terminal.

**Shuttle Service:** Esenboga airport has excellent transport links either by local shuttle (Havas, about 20 liras) in every 15 minutes to the city center. Then, you need to take a taxi to your hotel. The shuttle tickets are purchased on-bus by the coach driver

**Currency Exchange:** Exchange offices are located in the arrival section of the Esenboga airport.

### Visas

Participants should check with the Turkish Consulate or Embassy in their country as to whether they need a visa to enter the Turkey. If you need a letter of invitation from the Organizing Committee, please ask for this as soon as possible. In most cases, the participants pay their visa fee at the Turkish Customs entry, whereby they enter the country.

### Hotel Highlights

- High-speed Internet access available

in all rooms and meeting facilities

- Full-service restaurant, lobby bar, and room service

- Complimentary transportation to ceovention center

### Room Amenities

- Television

- In-room safe

- Hair dryer

- Phone with voice mail

- High-speed Internet access

# 5th Annual Meeting of the IGCP Project

## A-TYPE GRANITES AND RELATED MINERALIZATION IN THE TETHYAN BELT (FROM PYRENEES THROUGH TURKEY TO INDONESIA) • Sept. 27-Oct. 03, 2009

### Preregistration Form (Please type or print clearly.)

I will attend: Meeting (Sept. 29-30)  Pre-meeting excursion (Sept. 27-28)  Post-meeting excursion (Oct. 01-03)

Name \_\_\_\_\_

Agency/Affiliation \_\_\_\_\_

Title/Department \_\_\_\_\_

Work Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_ E-mail \_\_\_\_\_

I request confirmation of attendance in 5th Annual Meeting of the IGCP-510 Project

#### Methods of Registration

Fax this form to İlkyay kuscu at +90-(252) 223 9161

Copy and attach this form to [ikuscu@mu.edu.tr](mailto:ikuscu@mu.edu.tr), or [gkuscu@mu.edu.tr](mailto:gkuscu@mu.edu.tr)

Mail this form using the enclosed envelope.

Visit <http://www.igcp-510.org/> to register online or to download this form.

I am interested in making an oral presentation YES  NO

I am interested in making a poster oral presentation YES  NO

#### Methods of Payment

Please note that all payments must be made in Euro and be free of bank charges to the Conference Organisers. Please ensure that the participant's name is clearly seen and legible so that the payment is registered correctly.

I would like to pay by: Visa or Master Card  Cheque or Bank draft  Wire transfer (bank transfer)

#### VISA or MASTER CARD

Name of the card holder : \_\_\_\_\_

(as appear on the card)

Card number : \_\_\_\_\_

Expiry date : \_\_\_\_\_

Security number : \_\_\_\_\_

#### BANK-WIRE TRANSFER

Name of the Account : Durmus Boztug

Name of the Bank and branch code: Ziraat Bank – Tunceli Branch

IBAN number : TR76000100029839871338-5005 (USD account)

TR49000100029839871338- 5006 (Euro account)

Address : Moğultay Mah. Okullar Cad. No 2 62000 Tunceli, Turkey

Please annotate with 5<sup>th</sup> Meeting of the IGCP-510 Project, Tunceli-Turkey and your family name.

## FIELD EXCURSIONS

Please pre-register an interest in taking part in any of the field excursions by e-mail or fax to secretary. All excursions are offered on a first come, first served basis.

### 1. Pre-meeting

**Start and End:** September 27-28, 2009: A two-days touristic excursion to Cappadocia region (underground cities, fairy chimneys and ancient churches from the 6th Century, Ihlara Valley, vineyards, vinery and pottery in the Cappadocia) (<http://www.cappadociaturkey.net/>), and ancient civilization of Hittites, Alacahoyuk and Bogazkoy-Corum ([http://www.visitturkeynow.com/cities/c\\_hattusas.htm](http://www.visitturkeynow.com/cities/c_hattusas.htm)).

#### Leaders:

Prof. Dr. Vedat Toprak  
(Department of Geological Engineering, Middle East Technical University, Turkey)

Asst. Prof. Dr. Gonca Kuşcu  
(Department of Geological Engineering, Mugla University, Turkey)

### 2. Post-meeting

October 1-3, 2009: A three-days technical excursion to Alkaline magmatic suites and associated mineralized systems at central-eastern Anatolia.

**Start and end:** Keban (Elazığ), Hasancelebi (Malatya), Divriği (Sivas) and Bayındır-Kaman (Kirsehir) and alkaline magmatic rocks and associated ore deposits

1. Syenitic and trachytic intrusions and associated F-Cu-Mo porphyry mineralization at Keban (Elazığ)
2. Syenitic and trachytic intrusions and associated IOCG mineralization at Hasancelebi (Malatya)
3. Monzonitic intrusions and associated IOCG mineralization at Divriği (Sivas)
4. Syenitic-phonolitic intrusions and F-Cu porphyry and Fe-skarn mineralization at Bayındır (Kirsehir)

#### Leaders:

Assoc. Prof. Dr. İlkey Kuşcu  
(Department of Geological Engineering, Mugla University, Turkey)

Prof. Dr. Durmus Boztug  
(Tunceli University, Turkey)

Asst. Prof. Dr. Gonca Kuşcu  
(Department of Geological Engineering, Mugla University, Turkey)

## SOCIAL PROGRAMME

Sunday 27<sup>th</sup> September, 2009: Ice Breaker Vine Party at Cappadocia. Cost included in registration fee for participants and accompanying persons.

Wednesday 29<sup>th</sup> September 2009: City tour and shopping from local market at Tunceli for accompanying persons. Cost included in registration fee for accompanying persons.