




1st edition in Europe of International Earth Science Olympiad



GIFT Wien, 05 April 2011, roberto.greco@unimore.it <http://www.ieso2011.unimore.it>

| Name, acronym and website | First edition | Country where was held the first edition | Partecipant countries in 2010 | Country guest in 2011 |
|--|---------------|--|-------------------------------|-----------------------|
| International Mathematical Olympiad – IMO http://www.imo-official.org/ | 1959 | Romania | 118 | Netherland |
| International Phisics Olympiad – IPhO http://www.jyu.fi/iph/ | 1967 | Poland | 80 | Thailand |
| International Chemistry Olympiad – IChO http://www.icho.sk/ | 1968 | Czechoslovakia | 71 | Turkey |
| International Olympiad in Informatics – IOI http://www.ioinformatics.org | 1989 | Bulgaria | 84 | Thailand |
| International Biology Olympiad – IBO http://www.ibo-info.org/ | 1990 | Czechoslovakia | 59 | Taiwan |
| International Astronomy Olympiad – IAO http://www.issp.ac.ru/iao/ | 1996 | Russia | 19 (in 2008) | Bulgaria |
| International Geography Olympiad – iGeO http://www.geolympiad.org/ | 1996 | Netherland | 22 | German (2012) |
| International Junior Science Olympiad (under 15 years old) – IJSO http://www.ijso-fficial.org/home | 2004 | Indonesia | 49 (2009) | South Africa |
| International Olympiad on Astronomy and Astrophysics IOAA http://ioaa.info/ioaa2007/ | 2007 | Thailand | 22 | Poland |
| International Earth Science Olympiad - IESO http://www.ieso2009.tw | 2007 | Republic of Corea | 18 | Italy |

What is IESO?



International Geoscience
Education Organisation

"promoting GeoScience education worldwide"



The IESO is an **annual** competition for secondary school students.

The students have to test their skills in: **geology, geophysics, meteorology, oceanography, terrestrial astronomy and environmental sciences.**

The **theoretical** examination includes problems which are supposed to measure the participants' knowledge and understanding of Earth science areas. The **practical** examination consists of tasks which are designed to assess participants' abilities to carry out scientific investigations in earth science inquiries.

Each delegation is composed of 4 students and 2 supervisors.

The official language of IESO is English; however, the supervisors may **translate** the written examinations and related materials into to the participants' native language.

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International Geoscience Education Organisation

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| | | | | | | | |
|---------------|-------------|-----------------|-------------|------------|-----------|------------|-----------------|
| ABOUT: | the IGEO | Constitution | Newsletters | Officers | Contacts | Membership | Honorary Awards |
| FOR VISITORS: | Conferences | Useful websites | Noticeboard | email IGEO | IGEO home | | |



The IGEO is affiliated to and sponsored by the International Union of Geological Sciences (IUGS)

<http://www.geoscied.org/>



The aims of the International Geoscience Education Organisation (IGEO) are to promote geoscience education internationally at all levels.
Completato



to encourage developments raising public awareness of geoscience, particularly





Aim

The main aim of the IESO is to encourage students' interest and public awareness of Earth Science and to enhance Earth science learning. With the IESO the organizers hope to pick out talented and gifted Earth science students and to promote the improvement of teaching Earth sciences at schools. Last but not least, the IESO is developed in pursuit of encouraging friendly relationships among young learners from different countries and promoting international cooperation in exchanging ideas and materials on Earth sciences and Earth sciences education.



Previous and future editions

- 2007** – 1st edition – Republic of Korea, topic: Earth for Life, Universe for future Life
- 2008** – 2nd edition – Philippine, topic: Cooperation in Addressing Climate Changes
- 2009** – 3rd edition – Taiwan, topic: Human and Environment
- 2010** – 4th edition – Indonesia, topic: The Present is the Key to the Future
- 2011** – 5th edition – Italy, topic: Earth Science Renaissance: Science, Environment and Art
- 2012** – 6th edition – Japan, topic: Our future: Earth and Space
- 2013** – 7th edition – India



| | 2007 | 2008 | 2009 | 2010 |
|-------------------|------|------|------|------|
| Argentina | | | ob | |
| Cambodia | | | x | x |
| France | | | ob | ob |
| India | x | | x | x |
| Indonesia | x | ob | x | x |
| Italy | | | x | x |
| Japan | ob | x | x | x |
| Republic of Korea | x | x | x | x |
| Kuwait | | | | x |
| Maldives | | | | x |
| Mongolia | x | | | |
| Nepal | | | x | x |
| Philippines | x | x | x | x |
| Romania | | | | x |
| Russia | | | | x |
| Singapore | | x | x | |
| Sri Lanka | | | x | x |
| Taiwan | x | x | x | x |
| Thailand | | | x | x |
| Ukraine | | | ob | x |
| UK | | | x | |
| USA | x | x | x | x |
| | 8 | 7 | 17 | 18 |

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IESO test

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The figure below shows a type of landform which consists of sand.
What is the most likely prevailing local wind direction? (1 pt)

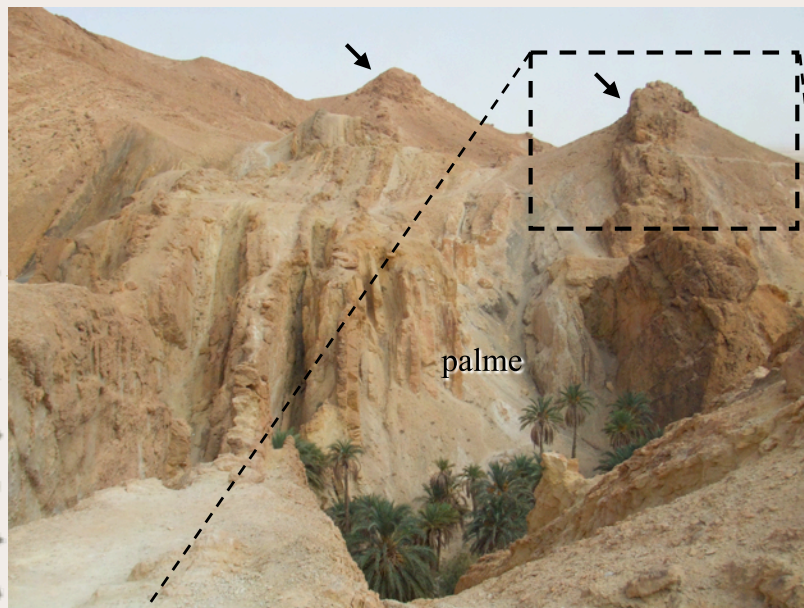
- (A) from low right to upper left (B) from upper right to lower left
(C) from upper left to lower right (D) from lower left to upper right
(E) no prevailing wind direction can be identified



The figure below shows a type of landform which consists of sand.
What is the most likely prevailing local wind direction? (1 pt)

- (A) from low right to upper left (B) from upper right to lower left
(C) from upper left to lower right (D) from lower left to upper right
(E) no prevailing wind direction can be identified

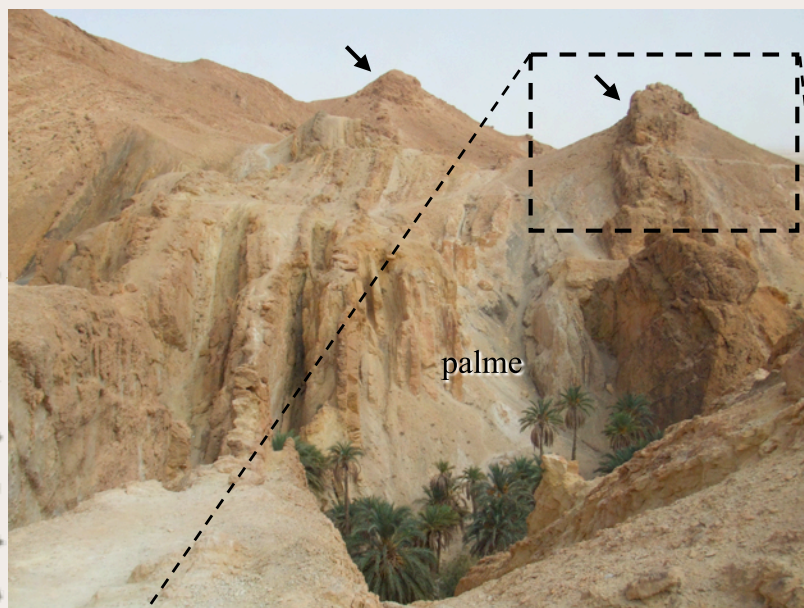




Risposta:

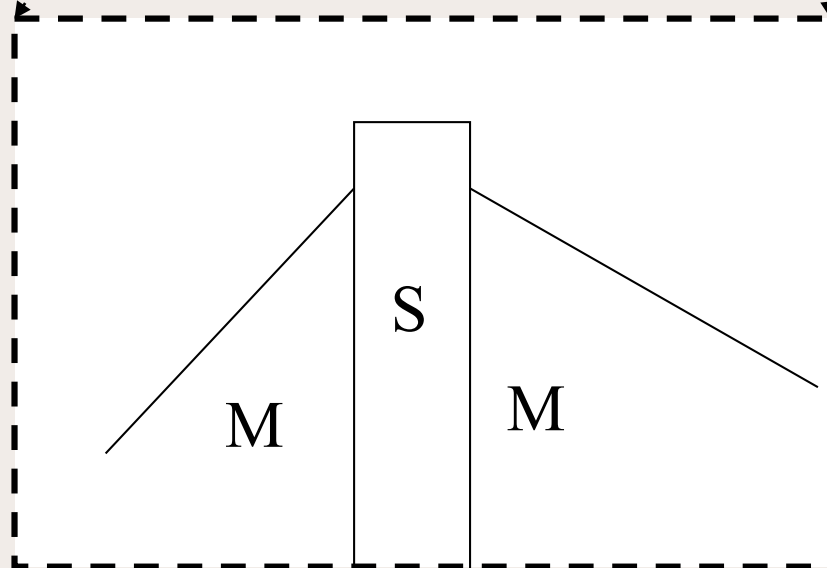


Assume that you are travelling along the northern margin of the Sahara Desert where vegetation cover is poor and the bedrock is exposed and readily observed (see photograph below). This rugged topography is characterized by many small ridges (indicated with arrows). Please draw a cross section to show the relationship between the lithology and topography. Use 'M' for mudstone and 'S' for sandstone to label the rocks. (2 pts)



Assume that you are travelling along the northern margin of the Sahara Desert where vegetation cover is poor and the bedrock is exposed and readily observed (see photograph below). This rugged topography is characterized by many small ridges (indicated with arrows). Please draw a cross section to show the relationship between the lithology and topography. Use 'M' for mudstone and 'S' for sandstone to label the rocks. (2 pts)

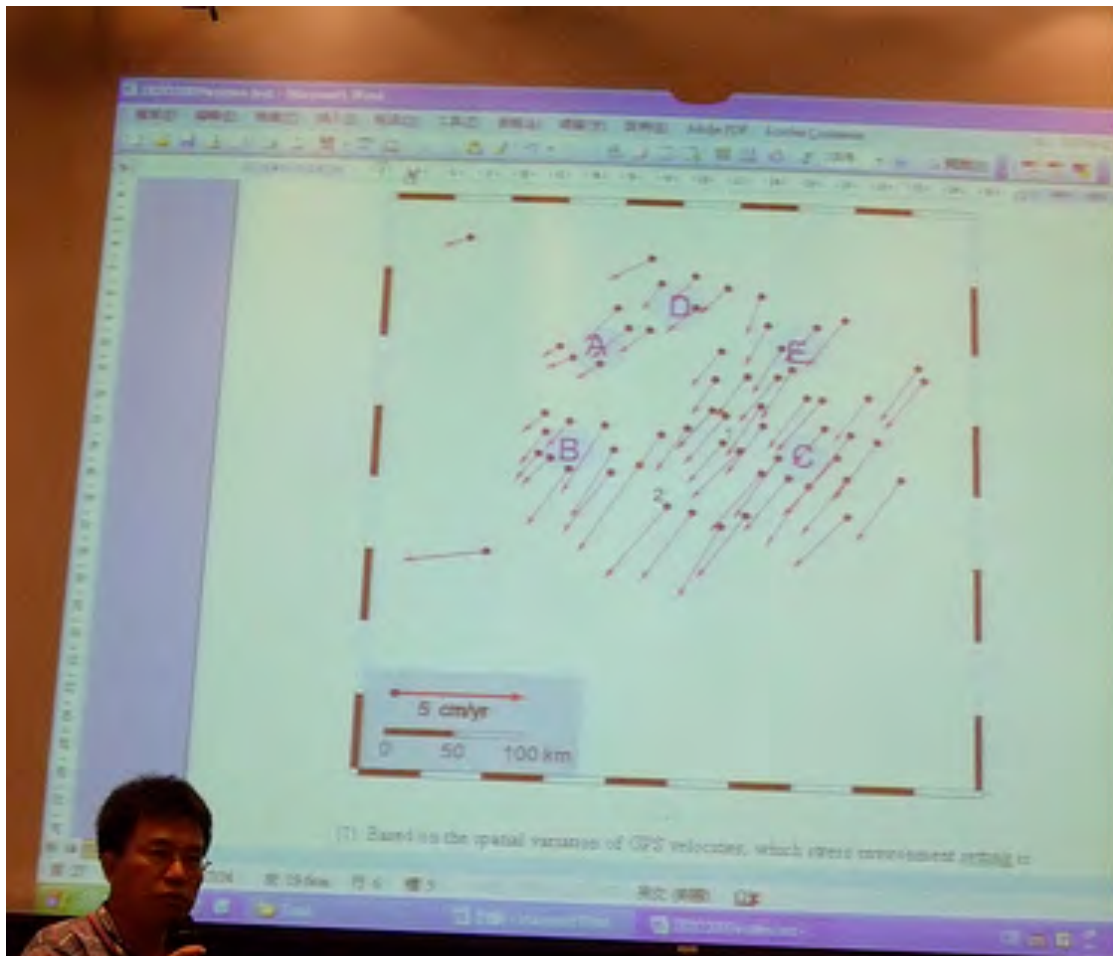
Risposta:



















International Team Field Investigation



















Plenary lecture Professor Emerito Seiya Uyeda dell'Università, Tokyo (foto di Chung Chu-Hsiang)



IESO 2009

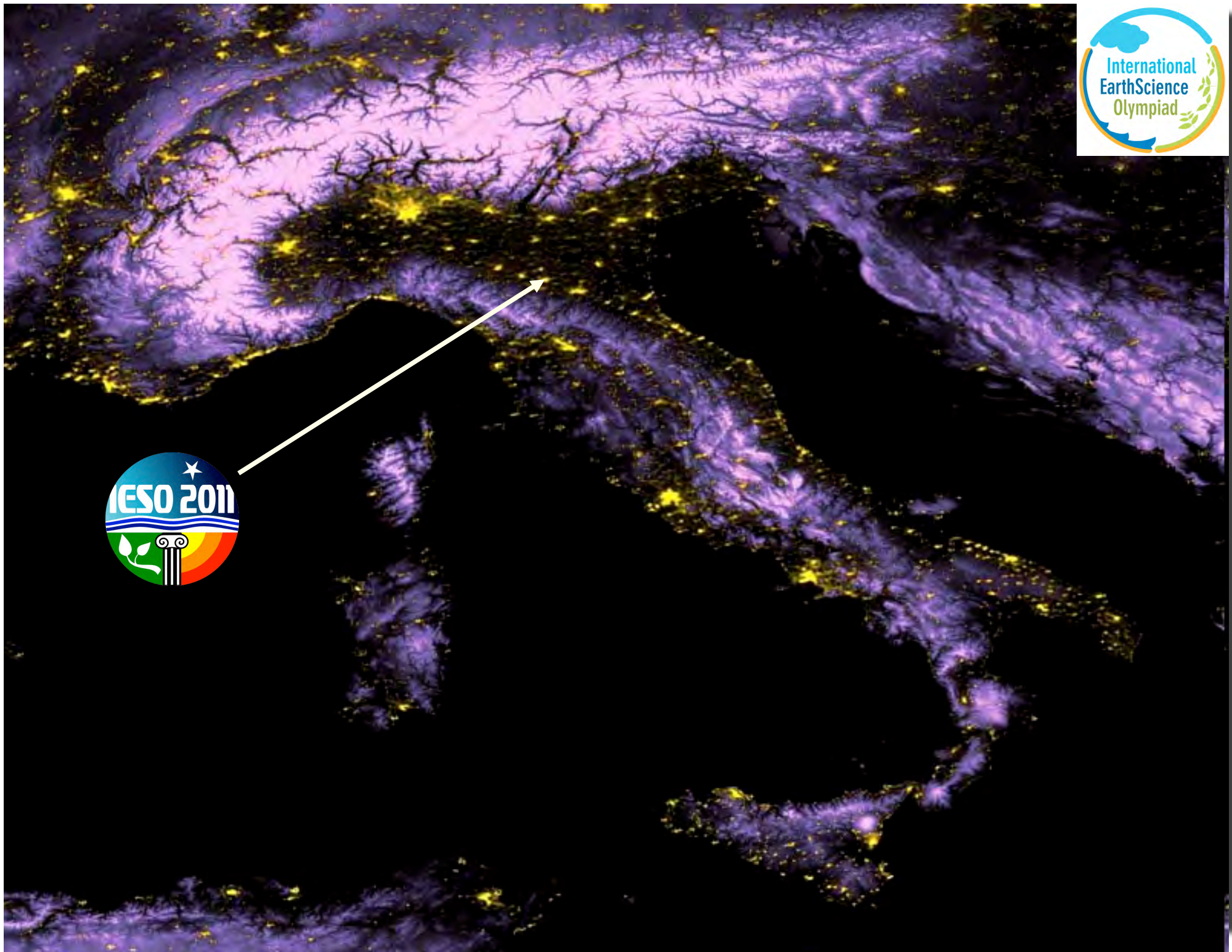
International Earth Science Olympiad

Taipei, Taiwan

September 14 ~ 22











UNIVERSITÀ DEGLI STUDI
DI MODENA E REGGIO EMILIA



Ministero dell'Istruzione
dell'Università e Ricerca



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1993, Perugia, International
Chemistry Olympiad – ICHO

1999, Padova, International
Physics Olympiad – IPhO

2008, Trieste, International
Astronomy Olympiad – IAO

**2011, Modena, International
Earth Science Olympiad**


2012, Sirmione, International
Olympiad in Informatics – IOI



| | Students | Mentors and Observers |
|--------|---|---|
| 1 day | Arrival Welcome dinner | |
| | | 1° Jury meeting |
| 2 day | Open ceremony Tour and visit | |
| | Field trip at Salse di Nirano | 2° Jury meeting |
| 3 day | Field trip to Venice | 3° Jury meeting, translation |
| 4 day | Prove scritte Visita al centro della Protezione Civile | Field trip to Venice |
| 5 day | Prove pratiche e sul campo | Field trip at Salse di Nirano |
| 6 day | Field trip to Valle d'Aosta ITFI | Field trip to Valle d'Aosta |
| 7 day | Valle d'Aosta ITFI | Field trip, observation of ITFI presentation Moderation 4° Jury meeting |
| 8 day | Visit to local school Plenary conference | Visit to local school Plenary conference |
| 9 day | Close ceremony Farewell party | |
| 10 day | Departure | |



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Newsflash Newsletters



IESO 2011

International Earth Science Olympiad, Modena (Italy) – 5-14 September 2011

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[Home](#) [What is IESO?](#) [The history of the IESO](#) [How to join the IESO](#) [How to help](#) [Info about Modena](#) [Useful Links](#) [News](#) [Documents](#)

IESO 5th edition 5-14 September 2011, Modena, Italy

Welcome to the 5th edition of the International Earth Science Olympiad - IESO.

*Ministero dell' Istruzione,
dell' Università e della Ricerca*

This year the topic of the IESO is **Earth Science Renaissance: science, environment and art.**

This is a special occasion: it happens to be the first in Europe and the first in Italy.

We hope that plenty of countries will attend this IESO edition as active participants or at least as observers.



If your country has never taken part in the event before and you would like to know more about the IESO, please take a look at this website. If you wish to get in contact with the organization, please write to: roberto.greco@unimore.it. We will keep you informed of the IESO 2011.



International Earth Science Olympiad, Modena (Italy) – 5-14 september 2011

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IESO 2011 we will aspect:

47 countries

33 with students

65 mentors

134 students

41 observer

12 guest

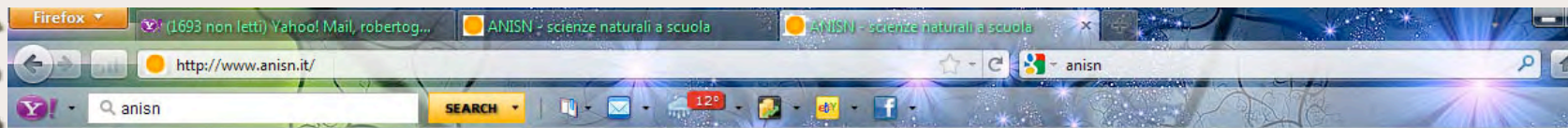
**IESO Pre Conference 6-10 July 2011,
Modena, Italy**



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Nulla ha senso in Biologia se non alla luce dell'evoluzione.
T. Dobzhansky

Associazione Nazionale degli Insegnanti di Scienze Naturali



- Olimpiadi delle Scienze Naturali
- Olimpiadi delle Scienze Naturali
- Olimpiadi Internazionali di Biologia - IBO
- Olimpiadi Internazionali di Scienze della Terra - IESO

- Formazione docenti
- Piano ISS - Insegnare Scienze Sperimentali
- Progetto Fibonacci
- Progetto biodiversità
- Progetti regionali

- Concorsi per docenti
- Premio Bonacini
- Darwin Day
- Premio Monchamont
- Science on Stage

- Riviste
- Le Scienze Naturali
- ANISN News
- Naturalmente
- Bollettino della sezione Campania

Novità

NUOVI! SCUOLE ISCRITTE ALLA EDIZIONE 2011 DEI GIOCHI DELLE SCIENZE SPERIMENTALI PER LA SCUOLA SECONDARIA DI PRIMO GRADO

Per l'anno scolastico 2010/11 l'ANISN, Associazione Nazionale Insegnanti Scienze Naturali, organizza.....

NUOVI! SCUOLE ISCRITTE ALL'EDIZIONE 2011 DELLE OLIMPIADI DELLE SCIENZE NATURALI

Di seguito l'elenco provvisorio delle scuole iscritte all'edizione 2011 delle Olimpiadi di Scienze N.....

PROROGA ALL'8 MARZO 2011 DELLA SCADENZA PER L'ISCRIZIONE ALLE OLIMPIADI DELLE SCIENZE NATURALI 2011 - NONA EDIZIONE

Anche in risposta alle richieste di proroga pervenute da numerose scuole, allo scopo di promuovere l.....

MEDAGLIA PRESIDENZIALE PER IL CONVEGNO E L'ANISN

Segnalazioni

TRECCANI SCUOLA "IL CORPO UMANO TRA NATURA E CULTURA", ROMA 30 MARZO
Il seminario, che si terrà il 30 marzo alle 15,30 nella Sala Igea dell'Istituto dell'Enciclopedia It...

UNI STEM IL LUNGO ED AFFASCINANTE VIAGGIO DELLA RICERCA SULLE CELLULE STAMINALI 18 MARZO 2011 ROMA - UNIVERSITÀ LA SAPIENZA -
Le Università di Milano, Torino, Firenze e Roma Sapienza incontrano tremila studenti delle superiori...

CORSO DI ECOLOGIA SPERIMENTALE SUL TEMA DELLA BIODIVERSITÀ - SEZIONI ANISN BASILICATA, CAMPANIA, LAZIO
CORSO DI ECOLOGIA SPERIMENTALE SUL TEMA DELLA BIODIVERSITÀ Ricerca naturalistica in campo Mod...

"LA SCIENZA NELL'ITALIA UNITA" ISCHIA, 15 E 16 APRILE 2011

- ANISN
- Chi siamo
- Elezioni 2010
- Sezioni ANISN
- Notizie ANISN
- Documenti
- Siti amici

- Iscrizione
- Come diventare socio ANISN
- Coordinate bancarie e CCP

- Il punto di vista : analisi, commenti, proposte
- La Riforma della scuola secondaria
- Riflessioni e proposte per un nuovo Liceo Scientifico
- Analisi e proposte per istruzione tecnica e professionale
- Osservazioni e

Piobbico 31 agosto – 5 settembre 2009









***We are
waiting for
you!***

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