



# CRUZIANA

GEOPARK NATURTEJO DA MESETA MERIDIONAL-EUROPEAN AND GLOBAL GEOPARK - MONTHLY REPORT

**In this issue:** – 40 years of the Portuguese revolution celebrated all over the Geopark – Week of the Earth and the Geological Heritage link the territory –New issue of the Açafa-Online released in celebration of the Day of Monuments and Sites – EGN website now with a Portuguese version – Celebrating the National Day of the Geological Heritage...and more!



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## **For the History of Naturtejo Global Geopark: Adolf Seilacher (24 February 1925 – 26 April 2014)**

Dolf Seilacher (as he preferred to be called by his friends) was born 89 years ago in Stuttgart, South Germany. Of curious nature, with an overwhelming energy that he kept until the end of his days, soon dedicated himself to the Palaeontology, having published the first scientific article at the age of 18. His youth was as troubled as the times of war witnessed by him, having survived to Hitler's hypnotic scholastic and the fall of the empire in Berlin. In times of post-war economic collapse, Dolf Seilacher subsisted and paid his university studies in Tübingen harvesting mushrooms in the woods. Thanks to the hard times, Germany gained a renowned mycologist!

In 1951, the geologist Dolf Seilacher ends his doctoral thesis on trace fossils under the orientation of Professor Schindewolf and, with his innovative ideas, partly layed on the descriptions of the Portuguese Palaeontology pioneer, Joaquim Filipe Nery Delgado, became the father of the modern Ichnology. In the next year, he leaves to India whose voyage was the first of hundreds of research trips promoted by him until the end of his career and life. His deep knowledge in Biology and Geology revolutionized other Palaeontological areas such as the Functional Morphology (the passion that consumed him for hours was the morphodynamics of the exoskeleton and the self-organization), the Evolutionary Ecology (at the level of scientific realm, who haven't heard about the Vendobionta in the end of the Precambrian?) or the Taphonomy (the Lagerstätten fossils), and the Sedimentology, through study of the ecological effects of sedimentary events, having published hundreds of scientific articles in the most relevant scientific publications. In the same year, (1951) he becomes professor of the University of Tübingen, which he stayed connected until 1990 and made famous until the present days. Since 1987 that Prof. Seilacher gave lectures in the class of Geology in the University of Yale, USA, having great joy discussing with young, bright minds.

Since 1960, Prof. Seilacher travels around the world as invited teacher, giving Palaeontology and Zoology lectures in renowned universities from all continents. At Portugal, he met the outcrops of Barrancos still in the decade of 60 and Penha Garcia, which he became to admire when he developed here some studies from 2000 on with this text signatory. Who he has never forgotten was the Portuguese palaeontologist from the XIX century, Joaquim Nery Delgado, and his work, which decisively influenced Seilacher. With an academic career of 71 years (!), Dolf Seilacher collected numerous positions and duties, from director of the Department and the faculty in Tübingen and president of the most prestigious paleontological associations, to curator of museums and editor in the main paleontological and geological German magazines, such as the renowned Lecture Notes in Earth Sciences, from which he was co-editor since 1985. His research subject is wide and his working area extends to more than 26 countries spread through all the continents! In 2003, this area was extended to the abyssal depths of the Mid-Atlantic Ridge, making a dive on the scope of his Volcanoes of the Deep-sea documentary!



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A poetic homage to his contribution to the Evolution of Life in the oceans. This is one of the many prizes awarded to Dolf Seilacher. In Portugal, this documentary that travelled the world in Imax theatres, had a single presentation in the geopark's headquarters, the Raiano Cultural Centre, in May of 2005, where the Professor talked to a totally sold out room, probably in the most significant and prestigious moment of all the history of this cultural space in the municipality of Idanha-a-Nova.

The exhibit Fossil Art, idealized by Dolf and masterly performed by the curator Hans Luginsland, illustrates 60 years of the most significant discoveries carried throughout the world that lead to the attribution, in 1992, of the Crafoord prize by the Royal Academy of Swedish Sciences (that covers areas of the global knowledge not contemplated by the Nobel Prize). With the maximum award in sciences (and with the money won), Dolf Seilacher made scientific voyages throughout the world, from the Namibian and Australian deserts to the Newfoundland shores and to Japan, giving new contributions to the Evolution of Life knowledge and disclosing Palaeontology, through the exhibit Fossil Art, as one of the most important tools for its knowledge. For this reason, he was for the first time in the Paleontological Site of Penha Garcia, in the summer of 2000, returning for a second time in 2005.

The international exhibit Fossil Art integrates more than 50 specimens, including ichnofossils (including ichnofossils from Penha Garcia), sedimentary structures and rock art engravings, from all the continents and representing more than 3000 million years of evolution of the biological behaviour. Fossil Art exhibition has almost 20 years of existence, being previously displayed in famous exhibition halls worldwide, namely in the Tübingen Geological Museum and in the Cologne and Karlsruhe Museums (Germany), Royal Tyrrell Museum of Paleontology and in the Royal Ontario Museum (Canada), Utah Museum of Natural History (Salt Lake City, E.U.A.), Schiele Museum of Natural History (North Carolina, E.U.A.), Peabody Museum of Natural History in Yale University (Connecticut, E.U.A.), National Museum of Tokyo (Japan), Sciences and Technology Museum (Porto Alegre) and Science Station (São Paulo), in Brazil, Raiano Cultural Centre (Idanha-a-Nova), National Museum of National History, in Portugal, among many other museums and institutions where the exhibit recently travelled to. The last results of Professor Adolf Seilacher decisive contributions about the way how life transformed the landscape of the oceanic bottoms, Fossil Art is a provoking and actual exhibit, which integrates science, art and the disclosure of a mutualism pretended to be developed. A new appeal to the science discovery and the capacity to interrogate ourselves about our origins and the Nature riddles.

The Municipality of Idanha-a-Nova, on the occasion of the Naturtejo Geopark of the Meridional Meseta current territory application to the Global Geoparks Network under UNESCO, had the vision for bringing the Fossil Art exhibit back to Europe and to Portugal, where it stayed for one year (2005), first in the Raiano Cultural Centre, where was visited by more than 4000 people during the few months spent in Idanha-a-Nova, and afterwards sponsoring its passage by the National Museum of Natural History in Lisbon, where in the summer of 2005 have been visited by more than 15000 people, giving exposure to the pioneer project in Portugal for a Geopark development.



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Professor Seilacher leaves a crucial legacy in Idanha-a-Nova and for all the Naturtejo Geopark territory. Besides the two Portuguese translations of his Fossil Art catalogue edited by the Council of Idanha-a-Nova in association with the National Museum of Natural History, the Professor contributed for the internationalization of the Ichnological Park of Penha Garcia with the publishing of his most prized book Trace Fossil Analysis, in 2007. He also had a decisive contribution for the geopark application to the UNESCO network with the support letter “Penha Garcia – World Heritage/Património Mundial”. This and other works were published in the books Geotourism and Local Development and Cruziana'05 – From Discovery to Recognition, edited by the Council of Idanha-a-Nova in 2009 and 2005, respectively.

For these reasons and by the scientific and heritage appreciation works that were and are being developed in the scope the Naturtejo Geopark, the International Scientific Community decided that the next International Ichnology Congress, the major event in this scientific area of Palaeontology, will be held in 2016 in Idanha-a-Nova, a good opportunity to celebrate the heritage of Dolf Seilacher and to pay tribute to this international scientist and to Jordi de Gibert, renowned Iberian palaeontologist who also passed away. This is also the time for moving up the museological appreciation works, in a consistent way that dignifies not only the region but all de country, of one of the most internationally recognized heritages nowadays in Idanha by the scientific community – the Ichnological Park of Penha Garcia, annually visited by 14000 people, but it requires a museological structure that enable to show all the scientific and cultural relevance of the magnificent valley of Ponsul, in this locality.

We cannot end this homage to Professor Dolf Seilacher without talking about his muse for 57 years: Edith Drexler. This micro-palaeontologist soon left her ostracodes to follow Dolf Seilacher in his adventures and discoveries throughout the world. Edith is the no less recognized face of Seilacher works, she is the responsible for keeping the researcher in the field, next to his (ichno)fossils and away from the computers, which he proudly said to be „a virgin” concerning them! Definitely, a symbiotic, successful relationship, which is now seen disturbed by Dolf Seilacher disappearance. Our thoughts and emotions are today with a very good friend of our region, Edith.

Too short are these lines to describe the life and work of one of the great Contemporary Science masterminds. It was impressive to see this gentleman in his fine age, working in the field, from early morning until dusk, one day with temperatures higher than 49°C, discussing enthusiastically and joyfully about a detail that everyone misses, sharing ideas with the most genial colleague or with the most inexperienced of the students.



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It was impressing to follow this man in a meeting, always aware to the new discoveries and ready to intervene in each communication with his contagious relevance. This was Dolf Seilacher and his caring relation with the Geological and Biological Sciences: a lifetime dedicated to the scientific research and disclosure, a passionate gaze upon his study subject that unveil today, in a topical way, more 3000 million years of Nature histories, through traces left by their key actors.

The Editor  
Carlos Neto de Carvalho  
Scientific Coordinator  
Geologist

Front page: (Projecto Objectiva Geopark)

# ACTIVITIES OF THE MONTH



**2 April – Geopark Naturtejo in the State University of South Mato Grosso (Brazil).** The Research Group in Protected Areas Management (GEMAP), from the State University of South Mato Grosso is applied to the Environmental Education and Sustainable Development. In partnership with Naturtejo Geopark, they are developing the geopark project of Bodoquena-Pantanal. Joana Rodrigues in a scientific and cultural mission in Brazil, in the scope of this partnership, spoke in a lecture to the students and scholarship holder's research group: "Geological Heritage, Geoparks and the Naturtejo Geopark Experience (Portugal)".



**5 April – Youth Event 2014 – European Network of Second Chance Schools.** This event was hosted by the Second Chance School of Matosinhos with the support of the Municipality of Idanha-a-Nova. The 57 students and 15 teachers came from countries like Portugal, Bulgaria, Spain, Germany, Sweden and Hungary. On this day, the participants visited the Historical Village of Monsanto and the village of Penha Garcia, where they came to know more about the Ichnological Park of Penha Garcia and the Mount-Island of Monsanto geomonuments. The Monitors were Hugo Oliveira and Manuela Catana.



**7-13 April - Week of the Earth and the Geological Heritage all over the Geopark.** Seven days, seven trips through the Naturtejo Geopark, under the UNESCO, was the proposal for the Week of the Earth and the Geological Heritage, held by the intermunicipal tourism company Naturtejo, together with the municipalities, parishes, associations and local companies.

The initiative takes place in April, month where it is celebrated the International Day of the Earth by the United Nations and the National Day for the Geological Heritage.

Those are seven treks through the Nature during the seven days of the week, from 7 to 13 April, framed in the scope of the Mines Route Partners Week and the Mining and Geological Interest Sites, a partnership platform of the Directorate General of Geology and Energy supported by the Mining Development Company.

The initiative aims to celebrate the geological heritage that gives international acknowledgment to the Naturtejo Geopark of the Meridional Meseta in all its vast, classified territory, thereby stimulating the participation of the public and private entities of the region, through a set of proposed activities made and carried by Naturtejo.

Naturtejo Geopark is formed by the municipalities of Castelo Branco, Idanha-a-Nova, Nisa, Oleiros, Proença-a-Nova and Vila Velha de Ródão, but this initiative has as novelty the integration of Penamacor in the set of actions carried throughout the territory.

Here is the list of activities: Trip through the Geodiversity of Penamacor (7 April); Voyage through the Earth Bones in the Talhadas Hill (8); Voyage to the Dawn of Life in the Horse Mines (9); In the Naturtejo Geopark Summit, through the granitic landscapes of Gardunha Mountain (10); In search for the Stone Mushrooms of Nisa - Earthcaching (11); Gold Panning in the Land of Gold, in Rosmanihal (12); and Urban Geology and Archaeology of Vila Velha de Ródão (13).

The program counted with exhibits, field trips, movies and conference presentations, having been opened to schools and for the general public. The visits were followed by a geologist and have the average of two to three hours length, in circuits made for walking or by own car.



**8, 9 and 11 April - Global Geoparks Network and Naturtejo Geopark in tour through the major universities in the state of S. Paulo (Brazil).**

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. In the scope of the geopark concept and the Geopark Bodoquena-Pantanal project divulgation, Joana Rodrigues presented “Geodiversity and Geological Heritage. Global Geoparks Network and Naturtejo Geopark” in the São Paulo state universities of UNESP in Rio Claro, UNICAMP in Campinas and USP in S. Paulo. It was disclosed by her and the team of Bodoquena-Pantanal Geopark the basic concepts about the issue, not yet familiar in Brazil and the existent projects in the scope of the Global Geoparks Network, such as the Naturtejo Geopark example.



**8 April – Living Science School making traditional bread during Easter holidays.**

This activity was intended for 26 participants (from 6 to 12 years old) under the occupation for the free time during the Easter vacations in the Living Science School – School Centre of Vila Nova da Barquinha, integrated in the Project “Science and Art in Food”. These participants were accompanied by 5 monitors/teachers and 4 parents. The activity monitor in the Fossils Trail was Hugo Oliveira. The Workshop of the Traditional Bread was promoted by the company “Treasures of Penha Garcia”, head of the Community Hoven of Penha Garcia.



**8, 11, 17, 23 April – Starting of the intensive training course for tourist guides in the Geopark.**

Continuous training is essential in a geopark, giving to local guides, commercials and Naturtejo collaborators the necessary knowledge of the relevant heritage such as resources and touristic potential, its accessibilities, equipment and infrastructures, allowing a more solid vision of the territory that serves them as working basis. With new touristic companies settling down is essential to offer them a consistent and standardising basis about what is a geopark and what distinguish it in the touristic context. Thus, starting in the month of April began a new continuous and practical training process in the field supervised by Carlos Neto de Carvalho, in which the participants are taken to experiencing the sites.

The Lady of Almortão Sanctuary, Rosmaninhal, Monsanto Inselberg/Boulder Trail and the historical village of Idanha-a-Velha were the chosen touristic attractions to begin the project. The training is given by Carlos Neto de Carvalho and some invited trainers, as happened with Dr. António Catana, local history specialist who introduced the participants to the history and traditions connected to the Our Lady of Almortão.

**12 April - Seminar on the Callum wine looks for the conservation of Geopark's anthropological treasure.**

The Municipality of Oleiros hosted a gastronomical week dedicated to two of its most original icons: the roasted kid and the Callum wine. In a way to create some study and expansion conditions for this historical wine in risk of extinction was organized a seminar that gathered researchers, technicians and marketeers. Carlos Neto de Carvalho stressed the importance of disclosing the terroir with Callum archaic characteristics as touristic product for the Naturtejo Geopark territory. It was yet clarified the importance of the anthropological value of this cast from Oleiros to a region that extends itself through the Alvelos mountain, as well as the necessity of developing and protecting a Callum brand that values the production and consumption in its origin.



**13 April - New issue of Açafa-Online released in celebration of the Day of Monuments and Sites.**

The High Tagus Study Association, in partnership with Naturtejo Geopark, the archaeology company Emerita and the Municipality of Vila Velha de Ródão released the number 6 of the cultural magazine Açafa On-line dedicated to the study and disclosure of the integrated area in the geopark. This release joined the celebrations for the Monuments and Sites Day, which in Vila Velha de Ródão gathered more than fifty participants in the Olive Oil Pole Press, recently made in a museum. "Places of the Memory" gathered the presentation of the magazine made by the archaeologist Francisco Henriques to the will of the local community in remembering the olive oil production history in the region. Two storytellers played some tales and local legends, for the crowd delight. In the end, there was the opportunity to taste the freshly made local flavours and acquiring them to share with all the family when returning home.

**17 to 20 April - Spanish Tierra de Fuego once again in the Geopark.**

Short holidays for 8 people at the geopark were the proposal of Tierra de Fuego. The group was guided by the local company Vila Fraga. They started by walking in the Vultures Trail and saw the Erges gorge geomonument, at Salvaterra do Extremo. In the next day they visited the historical villages of Monsanto and Idanha-a-Velha, and climbed Monsanto inselberg, connecting both villages by foot. Finally, in the last two days they climbed to the Gardunha mountain by the trail and visited the Ichnological Park of Penha Garcia.

**18-19 April - Spanish tour operator Fashion Madrid at the Geopark.**

This Spanish operator organized a tour for 50 people starting from Madrid. The local outdoor company Ponsulativo guided the group in the Geopark. They started very relaxed by visiting the spa at Termas de Monfortinho. After the massages, there was time for climbing up and down in the Fossils Trail at Penha Garcia. Finally, they visited the historical village of Monsanto.

**22 April – Celebrating the World's Day of Earth and the National Day for the Geological Heritage.** This field trip occurred in the scope of Portuguese, History, Geography, Natural Sciences Biology and Geology classes intended for 67 students and 6 teachers of the 7th, 10th and 11th grades of the School of Vila de Rei. The monitors were Hugo Oliveira and Manuela Catana in the Ichnological Park of Penha Garcia, Monsanto inselberg and the Roman city of Idanha-a-Velha. The geopark offered a copy of the book "Naturtejo Geopark of the Meridional Meseta – 600 Ma of history in images" and the school book "Ichnological Park of Penha Garcia – Questions and answers – geology" to the school library.



**23 April – Local young children meet the Geo- and Biodiversity of Erges Gorge I.** In this activity took part 21 students with 3, 4 and 5 years old, one of the two classes from the Idanha-a-Nova kindergarten, accompanied by a kindergarten teacher and two assistants. They visited the Biodiversity Interpretative Centre "Lands of Idanha" and made some edutainment activities related with bio and geodiversity of the municipality of Idanha-a-Nova. The monitors were Hugo Oliveira and Manuela Catana. Afterwards, the students met the entrepreneurial project "Scents of Valado".



**24 April – Educational Program at the Ichnological Park of Penha Garcia.** This field trip occurred in the scope of Natural Sciences class, from the 7th grade, Biology and Geology, from the 10<sup>o</sup> and 11<sup>o</sup> grades. The recipients were 40 students and 3 professors from Pedro Álvares Cabral School – Belmonte. The monitors were Manuela Catana and Hugo Oliveira.



**24 April – Introducing Naturtejo Global Geopark to the Tourism and Leisure Graduation from the Polytechnic Institute of Guarda.** Manuela Catana energized a small framing and background lecture of the Naturtejo Geopark to 10 students followed by 1 teacher of the Tourism and Leisure course from the Superior School of Tourism and Hotel Trade of the Polytechnic Institute of Guarda. This activity occurred in the Tourism Office of Penha Garcia. Later that day, the students followed by their teacher, ranged a small part of the Fossils Trail and a portion of the Boulders Trail in Monsanto.

**25 April – 40 years of the Portuguese Revolution celebrated with the publication of the Portuguese version of the EGN website.** In the day celebrated by Portugal as evocative of 40 years of democracy the European Geoparks Network launched the Portuguese version of its website. The work of translation was carried out by Catarina Silva and Carlos Neto de Carvalho. In this way, Naturtejo Geopark contributes once again for a better communication among Geoparks and those territories wishing to become a geopark, particularly among those from Portuguese speaking countries.



**25-26 April – 40 years of the Portuguese Revolution celebrated with the Science Festival of Proença-a-Nova.** The municipality of Proença-a-Nova and the Living Science Centre of the Forest organized a Festival of Science to celebrate 40 years of democracy in Portugal. Some scientific institutions, local and coming from abroad, were invited to participate with activities for local families. About 500 participants were registered in the activities showing the success of this event placed right in the town center. Many young people enthusiastically participated in the proposed activities, from the electrical car circuit to a travelling planetarium and geological activities performed by the Living Science Centre of Estremoz and Naturtejo Geopark. The geopark space was lived by the project Friendly Rock and Prof. Mário Cachão. Based on rocks and fossils, Prof. Cachão was challenged by his very young public to tell a geological story. Manuel Almeida, Sérgio Ribeiro and Carlos Neto de Carvalho were responsible for the contact with locals and the organization, spreading new information about the Geopark.



**26-27 April – TTransGeopark: a national reference for the environmental off-road.** Those who experience it always want to come back. It is not surprising that in the sixth edition of the TTransGeopark, a weekend of touristic off-road hosted by the Oven House in Salvaterra do Extremo in partnership with Naturtejo Geopark, attended participants native from several regions of the country for the fourth consecutive time. As it is stressed by the prestigious speciality magazine Auto-Hoje TT & Aventura, the TTransGeopark distinguish itself by its environmental concern, by the strong cultural approach and by the large family that have been built throughout its editions. Year after year this magazine follows with particular emphasis this event evolution, which always brings new trails through the classified territory under the UNESCO auspices and new experiences that allow to know the local culture, João Geraldês, one of the project mentors and its main energizer congregate in the organization all his family, since his parents, famous bakers from the times of the Geo-bakery Hoven House, to his sister and brother-in-law in the organization logistics, to his wife and four year old children, in the stages recognition. And this familiar organization extends itself to the involved entities in the organization success and to the own participants, who feel at home. This year, TTransGeopark counted with the support of the Municipality and Parish of Penamacor, joining the integration strategy for this Municipality in the dynamics and strategies of the Naturtejo Geopark. In Penamacor, the participants, always in restricted numbers by limitations of environmental footprint, were well welcomed with a guided tour to the Donjon Tower and with a morning meal in which there was no lack of products with the “Lands of the Lynx” seal of quality. On a unseen way, and due to the environmental education approach of the TTransGeopark, landscape and heritage values, the morning was spent in the Natural Reserve of the Malcata Mountain, responsibility of the Dr. Manuela Fernandes, who introduced the retinue to the secrets of this Protected Area in broad Iberian Mountain Range surrounded by the thick fog that was deeply felt. Rui Marcelo and Anabela, in the Moinho do Maneio country house, received the group with all of the sympathy and with products of exceptional qualities in a lunch in the riverbank of the Bazágueda. After that, was followed a visit to the Vieiro das Gralhas, next to Salvador, another unseen, very appreciated event, since it may have been the first time in 100 years that this Iron Age mines received so many visitors. No less rare and dazzling was the visit to the place of Pomar, nowadays uninhabited, where the famous novel “The Night and the Dawn” of Fernando Namora was remembered, and the histories there described in this time fossilized settlement. As usual, the retinue arrived later in the afternoon, through the tracks dyed with rosemary from Toulões, to the historical Salvaterra do Extremo, where they spent the night. Leonor, António Geraldês and Rita Ferreira waited for the participants with all the kindness and skill in the cooking arts, without suggesting that they had a sleepless night to leave all things well organized.

The next springtime morning, always followed by the explanations of Carlos Neto de Carvalho, from Naturtejo Geopark, was spent between Ladoeiro and Cebolais de Cima, descending the magnificent Ponsul River. In its riverbanks there was no lack of deers, Bee-eaters, storks and griffon vultures, between colourful and charming vegetation, which impressed the visitors. The winery “High Tagus” closed Sunday's stage with a tasting of their already prized, referenced wines, which had the participants excited for buying numerous bottles. The lunch was served right there in the House vineyard, where it could not be missing the freshness of the Rosé and White Wine from the Alto Tejo region.

To reduce the participant's ecological footprint of the VI TTransGeopark edition will be planted native species in the Malcata Reserve area during the S. Martinho period and will be scheduled by the Oven House a weekend dedicated to the chestnut, which the vast majority of the participants already said that they won't be missing. The registrations, as always for environmental and emotional reasons, will be limited.



**28 April – Local young children in the Erges gorge II.** In the activity participated 18 students from the Ladoeiro kindergarten, accompanied by two kindergarten teachers and by 3 educational auxiliaries. The students visited the displayed exhibit in the Biodiversity Interpretative Centre “Lands of Idanha” and made some edutainment activities related to the visit. The monitor was Hugo Oliveira. Afterwards the students went to meet the entrepreneurial project “Scents of Valado” where they could see all the processes that the plants pass through.

**28 April – Fossils and Granite boulders in one school trip.** This field trip occurred in the scope of Biology and Geology classes and was intended to 25 students of the School of Sátão, followed by 3 professors. Manuela Catana was the monitor for the field trip.



**29 April – Educational Programs presented in the seminar “Natur-Culture: the future is you!”.** Manuela Catana was invited to present a lecture in the Seminar “Natur-Culture: You are the Future!” hosted in the scope of the Professional Course for Environmental and Rural Tourism Technician of the Professional and Technological School of Sertã. The initiative aimed to advise the general public for the preservation importance of the Cultural and Natural Heritage, as well as its relevance to the upcoming generations.

The lecture given by Manuela Catana was called “The Educational Programs of Naturtejo Geopark of the Meridional Meseta and its contribution for the Geopark's territory Cultural and Historical Heritage conservation”. The seminar had 3 lectures and was attended by around 50 students from the Professional and Technological School of Sertã and by several professors. This event occurred in the Culture and Venue House of Sertã.



**30 April – Local young children in the Erges gorge III.** Took part in this activity 21 students followed by 2 kindergarten teachers and 3 educational auxiliaries from the S. Miguel D' Acha and Monsanto kindergartens. They visited the Biodiversity Interpretative Centre “Lands of Idanha” and made some edutainment activities related to the bio and geodiversity of the Idanha-a-Nova municipality. The monitor was Hugo Oliveira. After that the students went to meet the entrepreneurial project “Scents of Valado” where they could see all the processes that the plants pass through, since the planting to the production, as an example, of soaps and shampoos in a biological and handmade way, from them.



# IMPACT OF GEOPARK IN MEDIA

## Newspapers & www

April (Ensino Magazine) – In the Granite Inselberg of Monsanto.

April (Cultural Agenda of Oleiros) – The monthly edition of Oleiros municipality cultural agenda was entirely dedicated to the International Appalachian Trail project organized by Oleiros, Naturtejo and Estreito village

April-July (Auto-Hoje TT & Aventura) – From the Cordillera to Meseta

April (Oleiros Magazine) – National Congress in the town

April (Oleiros Magazine) – Climbing school makes success in the municipality

9 April (Ambitur Online) – UNESCO Geoparks Program closer to become a reality

9 April (Gazeta do Interior) – Festival of the Roasted Kid and “Maranhos”

9 April (Gazeta do Interior) – In the trail of the Segura mines

9 April (Gazeta do Interior) – Cultural Forum of Idanha-a-Nova hosts the Meeting of Easter Songs

10 April (Reconquista) – Ródão visits places of memory

10 April (Reconquista) – Mines are route for a path in Segura

23 April (Gazeta do Interior) – Students from Amato Lusitano High School featured in the Congress of Young Scientists

23 April (Gazeta do Interior) – Meeting of Easter Songs fills the Cultural Forum

30 April (Gazeta do Interior) – Templars return to Monsanto for the Divine Holy Cross Fest

30 April (Gazeta do Interior) – More than 100 soups concurring in Proença-a-Velha at the weekend of 10 and 11 May

# SCIENTIFIC CONTRIBUTIONS FOR THE GEOPARK AND THE GEOSCIENCES



- Antunes, I.M.H.R., Neiva, A.M.R., Farinha Ramos, J.M., Silva, P.B., Silva, M.M.V.G., Corfu, F. 2013. Petrogenetic links between lepidolite-subtype aplite-pegmatite, aplite veins and associated granites at Segura (Central Portugal). *Chemie der Erde*, 73, 323-341.

- Antunes, I.M.H.R., Albuquerque, M.T.D. 2013. Using indicative kriging for the evaluation of arsenic potential contamination in an abandoned mining area (Portugal). *Science of the Total Environment*, 442, 545-552.

- Neto de Carvalho, C., Rodrigues, J.C. & Gonçalves, D. (2013) – Património Geológico de Oleiros: inventário de geossítios e propostas para a sua valorização. *Açafa On-line*, 6: 4-61.

- Henriques, F., Mendes, C., Caninas, J. & Neto de Carvalho, C. (2013) – Notícia de uma provável estela funerária africana encontrada em Portugal Continental. *Açafa On-line*, 6: 290-300.



## PROMOTION FOR THE GENERAL PUBLIC





# PROMOTION FOR THE GENERAL PUBLIC



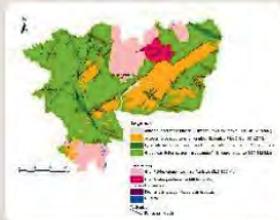
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- Aulas na Escola
  - Projectos Anuais
  - Exposições
  - Recursos Educativos
  - Acções de Formação
  - Aulas na Natureza
  - Oficinas
  - Dias Temáticos
  - Concursos



Nota: condições e programas especiais para escolas incluídas no Geopark Naturtejo (Castelo Branco, Idanha-a-Nova, Alcañices, Oleiros, Proença-a-Nova, Vila Velha de Ródão)

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[www.naturtejo.com](http://www.naturtejo.com)

## ACTIVIDADES ROCHA AMIGA

### O Programa

O Programa Rocha Amiga é um espaço de ensaio de novas estratégias pedagógicas envolvendo o objecto de estudo por excelência da Geologia: as rochas.

Este programa está activo e disponível para todos os professores e alunos dos ensinos Básico e Secundário, apresentando propostas de actividades e desenvolvimento de kits com amostras de mão de rochas.



### Paleo-tarot

Pedindo emprestado o disfarce duma conhecida actividade esotérica o "Paleo-tarot" ilustra o modo como os fósseis ajudam na interpretação da história do Planeta.

Extraídas cinco cartas-fóssil, uma por cada afloramento do tabuleiro, iremos mostrar como o Paleontólogo profissional reconstitui as unidades geológicas duma região.



### Jogo dos Seixos

Uma das actividades do Geólogo é interpretar ambientes do passado (paleoambientes).

Através dum conjunto de seixos recolhidos de praias marinhas do litoral ocidental português, este jogo ilustra o modo como se vão adicionando as provas que ajudam na reconstrução dos paleoambientes, no caso o enorme delta jurássico onde viveram os dinossauros do Oeste de Portugal.

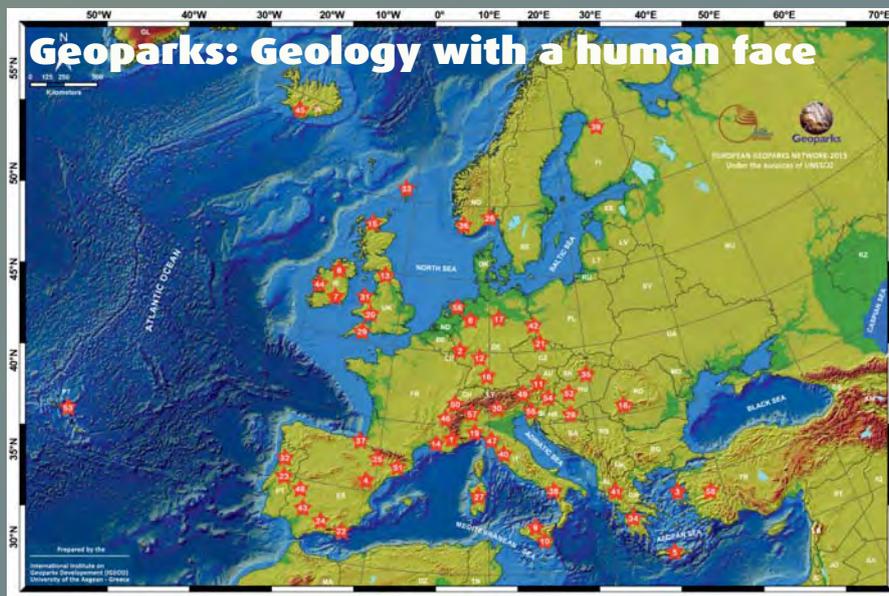
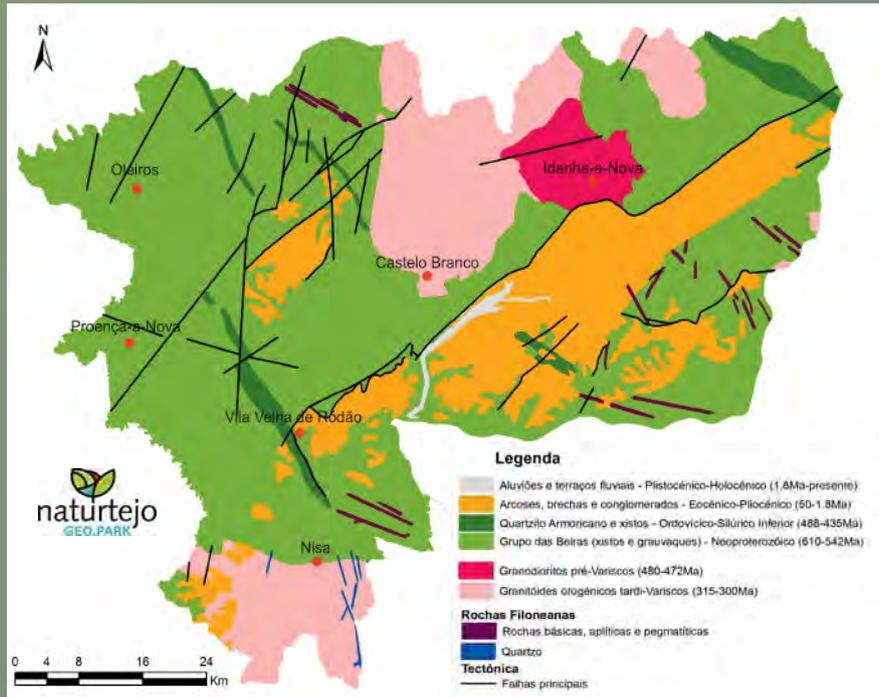


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Webpage: <http://www.ciencia viva.pt/divulgacao/rochaamiga/>



## **PROMOTION FOR THE GENERAL PUBLIC**



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