

(E) INNOVATION & CREATIVITY



Our research in sustainable development received numerous international accolades. All awards are displayed in our R&D Gallery

(E) INNOVATIONS & CREATIONS



Gold Award

SMSTSSS at Olympiad Genius
Competition in New York, USA on
17 - 21 Jun 2013



Silver Award

Hong Kong International Science
Fair 2012 (8-9 Oct 2012)

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THURSDAY, AUGUST 9, 2012 NEW STRAITS TIMES | SCHOOL TIMES: ISSUE THIRTY-SEVEN | 5

No limits

Young Scientists

At the International Environment And Sustainability Project Olympiad (INESPO) held in the Netherlands recently, two Malaysians did our country proud by winning fourth place in the Encouragement Award.


Sixteen-year-olds P. Shadiswaren and Anis Sabihah Aidid are from Sekolah Menengah Sains Syed Sheh Shahabudin, Bukit Mertajam, Pulau Pinang.

The International Environment and Sustainability Project Olympiad (INESPO) is an international competition where school students come together to share ideas on how to save the environment through natural or eco-friendly actions.

It showcases projects that have the ability to save the environment from water, air or soil pollutants.


Our duo's successful project was titled: **Once Ignored, Now Hero: Banana Stalk-Based Activated Carbon (BSAC) as Low-Cost Adsorbent For Basic and Reactive Dye Control.**

"The project started in November



school's canteen sometimes served bananas for dessert. And the banana stalks were stacked behind the dining hall. That's how they decided on banana

the octo-finals national-level debate championships and was in one of the best ten teams in Penang for the robotic team," said Shadiswaren.




Glossary

Sustainability [suh-stey-nuh-bil-i-tee]
the quality of not being harmful to the environment

Stalks [stawks]
thick or tall stems of a plant

Dye [dahy]
a colouring material or matter

Adsorbent [ad-sawrb-buhnt]
capable of absorbing heat, light, moisture

Flute [floo] 
a musical wind instrument

TEACHER'S GUIDE

Shadiswaren and Anis saw two problems and decided to come up with an environmentally sound solution. Ask students to look about their school and list the

Our innovation has earned an **Encouragement Award**, (Amsterdam, Netherlands)

International Environment & Sustainability Project Olympiad (INESPO) 2012 - **Banana Stalk Based Activated Carbon (Bsac)** As Low Cost Adsorbent For Basic And Reactive Dyes Removal

(E) INNOVATIONS & CREATIONS

2010 - Banana Fibres

Gold Award

(Beijing, China)



2011 – Pineapple Peel

Bronze Award

(Texas, USA)



**International Environment & Sustainability
Project Olympiad (INESPO)**