

REFERENCE : NRIC2014/PM/INT/445  
DATE : 7 JULY 2014

Prof. Dr. Ir. Mohammad Bisri  
Rector  
Universitas Brawijaya  
Jalan Veteran, Malang  
65145 East Java  
Indonesia

Via:

The Honourable Prof. Dr. Adnan bin Hussein  
Deputy Vice-Chancellor  
Division of Student Affairs and Development  
Universiti Sains Malaysia

  
FADZILA BOSMAN  
Penolong Pendaftar  
Hal Ehwal dan Pembangunan Pelajar  
UNIVERSITI SAINS MALAYSIA

Dear Sir,

**INVITATION TO PARTICIPATE IN THE NOVEL RESEARCH AND INNOVATION COMPETITION (NRIC) 2014, UNIVERSITI SAINS MALAYSIA (USM)**

With reference to the above matter, it gives me a great pleasure to inform you that the Student's Representative Council of the Universiti Sains Malaysia (USM) will be organizing the **Novel Research and Innovation Competition (NRIC 2014)** for undergraduate students of local public and private institutions of higher learning and diploma for public institutions only.

2. In line with the organizing committee's aim of internationalizing the event, we are extending an invitation to ASIA universities to participate in this competition.

3. The objectives of this competition as below:

- To support the aims and aspirations of the Malaysian government and ASIA in spearheading national development by emphasizing on research and development in the field of science and technology.
- To retain a sustainable value in every research as to ensure tomorrow's sustainability.
- To accord due recognition to the best research project idealized by full time postgraduate and undergraduate students in Malaysia and ASIA.
- To showcase the successful findings, inventions and innovations through research and development by local and international institutions of higher learning.
- To cultivate interest in postgraduate and undergraduates to participate in research and development activities/endeavors this will serve as a springboard for their continued involvement in R&D activities in their future career.

4. It is really appreciated if your university will confirm the participation in this event. For further information pertaining to this competition will be promptly dispatched to your institution at the appropriate time. We also seek your goodwill to allow us to use your university logo for promotional purposes related to this event.

5. For your information, the Novel Research and Innovation Competition is scheduled to be held as followed:

**Date : 19<sup>th</sup> – 22<sup>nd</sup> August 2014**

**Venue : Student Main Hall, Universiti Sains Malaysia  
11800 Penang, Malaysia.**

6. *Kindly refer to the Appendixes for the terms and conditions of entry and for the guideline of executive summary.*

7. Entry forms of Novel Research and Innovation Competition can be downloaded from the website stated below. For your information, the closing date for entries is on 25<sup>th</sup> July 2014.

8. For further details, please contact :

**MAJLIS PERWAKILAN PELAJAR**

Bilik Sekretariat NRIC 2014,  
Tingkat 1, Bangunan H21, Kompleks Cahaya Siswa,  
Universiti Sains Malaysia,  
11800 Minden, Pulau Pinang,  
Malaysia

Telephone : +604-653 3323

Fax : +604-653 3324

Email : pm\_nric14@outlook.com

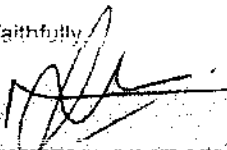
Website : <http://web.usm.my/nric/novelresearch&innovationcompetition/>

ATT : **MAVEEKA CHANTHRASUWAN**  
(+6012-4155425)

Your participation in this event is warmly welcomed. Thank you.

**"Realizing Future Sustainability Through Research and Innovation."**

Yours faithfully



**(NUR AMMELIA BINTI AZMAN LIM)**

Head of Department Participant Management

Novel Research and Innovation Competition (NRIC) 2014

Universiti Sains Malaysia (USM)

TEL : +017-9223100



**USM** UNIVERSITI  
SAINS  
MALAYSIA



**NRIC**

## **NOVEL RESEARCH & INNOVATION COMPETITION 2014**

**REALIZING FUTURE SUSTAINABILITY  
THROUGH RESEARCH & INNOVATION**

**DATE : 19 - 22 AUGUST 2014**

**VENUE : DEWAN UTAMA PELAJAR  
USM**

### **INTRODUCTION**

Universiti Sains Malaysia (USM) had successfully made a breakthrough in organizing National Research & Innovation Competition (now Novel Research & Innovation Competition) since 2007 until 2013. Hence, MPPUSM would like to make NRIC 2014 as the supportive step in instilling the importance of research and development to the students besides giving them an opportunity to put their talents and creativity into real actions.

### **CATEGORIES :**

**LIFE SCIENCE  
FUNDAMENTAL SCIENCE  
INFORMATION TECHNOLOGY & COMMUNICATION  
HEALTH & MEDICAL SCIENCE  
ENGINEERING & TECHNOLOGY  
SOCIAL TRANSFORMATION & CREATIVE ART  
COMMUNITY RESEARCH & INNOVATION COMPETITION**

### **ADVANTAGES**

**Participants who won the award of NRIC have opportunity to compete in the British Invention Show at London**

# APPENDIX 1

## CONDITIONS FOR PARTICIPATION

- This competition is only open to all final year undergraduate and diploma students of local and international institutions of higher learning that require their students to conduct research as part of their graduation requirements.
- Each university is responsible for selecting the best research project to be submitted for the competition.
- The project can be in the form of a finished product, publication or a theoretical construct.
- This competition is open to either individuals or groups (*maximum three participants*)
- The maximum number of entries from each university should not exceed 15 projects.
- **ENTRY CLOSING DATE: 25<sup>th</sup> July 2014.**

## ADJUDICATION

- The students will be directly involved in the presentation of their research projects during the exhibition period.
- Adjudication will be conducted from **19<sup>th</sup>- 22<sup>nd</sup> August 2014.**
- All decisions made by the adjudicators are final and are not subject to appeal.
- The panel of adjudicators, chosen from universities and industries will be appointed by USM.

## REGISTRATION FEE

- **USD400 per project ( MYR 1300)**

(cover accommodation and foods maximum for *three persons per group and one person in charge*).

***Any additional participant has to be informed to organizer in 2 weeks in advance before the event. The maximum number of participant to be added is limited to 2 persons only. USD60 will be charged for each additional participant.***

- A deposit of USD200 (subject to changes/fluctuations in the current exchange rates) has to be remitted a month before the closing date for entries and the remaining amount must be settled upon registration.
- ***Participation fee for each project participant is RM1300 and to be settled BEFORE 8<sup>th</sup> AUGUST 2014.***
- ***Participation fee is not received within the specified period, participation in the project will not be entertained.***
- ***In the event of cancellation after the closing date, the participation fee has been paid is non-refundable.***
- Payments can be made in cheque, cash and bank in via TT transfer to the

Bursary, Universiti Sains Malaysia,  
11800 Universiti Sains Malaysia  
c/o Bank Muamalat Malaysia BHD  
USM Service Centre, Minden  
**PENANG, MALAYSIA**

BANK	: MUAMALAT
ACCOUNT NUMBER	: 0702-0001054-71-6
SWIFT CODE	: BMMBMYKL

\*Any alteration of terms and conditions are depends on the organizer as well.

# APPENDIX 2

## STRUCTURE OF THE EXECUTIVE SUMMARY (ABSTRACT)

This is guideline for abstract:-

1. Problems
2. Solution to the problems
  - Technology use
  - Fundamental science
  - Commercial value
  - Knowledge impact
3. Impact of solution
  - Community
  - Commercial value
  - Humanity
4. Explained your product in term of technical, application of product, comparison with others product and innovation.
5. Originality and innovation.

## FORMAT OF THE EXECUTIVE SUMMARY (ABSTRACT):

- English
- 1 page on A4 paper( One paragraph )
- Font: Calibri, 11, Spacing line 1.5
- Please submit your abstract based on the criteria above with no more than 200 words

### ADJUDICATION CRITERIA

- Presentation
- Aesthetics
- **Oral Delivery**
- Dissemination of Information
- Originality
- Creativity

### PROJECT CATEGORY

- 1) Engineering and Technology
- 2) Fundamental Science
- 3) Life Science
- 4) Medical & Health Science
- 5) Social Transformation & Creative Art
- 6) Information Technologies and Communications

# APPENDIX 3

## EVALUATION FORM BY THE PANEL OF NRIC 2014

Name of university : \_\_\_\_\_

Project Title : \_\_\_\_\_

Abstract Authors: \_\_\_\_\_

Name of participant : (i) \_\_\_\_\_ Phone No: \_\_\_\_\_

(ii) \_\_\_\_\_

(iii) \_\_\_\_\_

Name of Project Advisor : \_\_\_\_\_

Phone No. : \_\_\_\_\_

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### **Criteria for NRIC Project Scoring :**

- *Statement of the Problem*
- How does your product can solve the above problem.
- Description of the product technically.
- Originality & sophistication of products.
- Applying the product.
- Comparison with competitors.
- The impact of the product (to the economy, industry, quality of life, & so on)

### **Abstract Format**

- English
- 1 page on A4 paper( 1 Paragraph ).
- Font: Calibri,11, Spacing line 1.5
- Please submit your abstract based on the criteria above with no more than 200 words

### **\* Note to participants:**

Include this attachment ( APPENDIX 3 ) with the abstract.

Please send Entry Form and the abstract before 25<sup>th</sup> July 2014.

# APPENDIX 4

## DRESS CODE

DATE	ACTIVITIES	ATTIRE
19.8.2014	Participant Registration	Smart casual
20 & 21.8.2014	Exhibition & Judging	Formal
22.8.2014	Awards Closing Ceremony	Smart Casual

## ADDRESS FOR MAILING :

MAJLIS PERWAKILAN PELAJAR  
Bilik Sekretariat NRIC 2014,  
Tingkat 1, Bangunan H21, Kompleks Cahaya Siswa,  
Universiti Sains Malaysia,  
11800 Minden, Pulau Pinang,  
Malaysia.

Telephone : +604-653 3323  
Fax : +604-653 3324  
Email : pm\_nric14@outlook.com  
Website : <http://web.usm.my/nric/innovateresearch&innovationcompetition/>

ATT : NUR AMMELIA BINTI AZMAN LIM  
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PARTICIPANT MANAGEMENT NRIC 2014  
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TREASURER OF NRIC 2014.  
( +6017- 4940104 ) ( [syafiqnric@hotmail.com](mailto:syafiqnric@hotmail.com) )