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International Atomic Energy Agency

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International Atomic Energy Agency

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Международное агентство по атомной энергии

Organismo Internacional de Energía Atómica

FAX Cover Sheet

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Addressee(s):

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Reference: C1-RAS5056

Subject: IAEA/RCA Project Planning and Coordination Meeting, 10-13 April 2012, Vienna, Austria

Dear National RCA Representatives,

In accordance with the plan of activities of the RCA Programme in 2012, I am inviting your Government to submit nominations for the above-mentioned event, details of which and requirements for participation are given in the attached Information Sheet.

Please inform us **not later than 6 February 2012** of suitable candidates for this event with the duly completed and endorsed nomination form.

Thank you for your cooperation.

Best regards,

Kesrat Sukasam
RCA Focal Person
Division for Asia and the Pacific

In case of incomplete transmission, please call +43 1 2600 ext 24295
Asia and the Pacific

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International Atomic Energy Agency

IAEA/RCA Project Planning and Coordination Meeting

INFORMATION SHEET

**Project Number
and Title:**

RAS/5/056 - Supporting Mutation Breeding Approaches to Develop
New Crop Varieties Adaptable to Climate Change (RCA)

Place:

Vienna International Centre, Vienna, Austria

Dates:

10-13 April 2012

**Deadline for
Nominations:**

6 February 2012 (Please note that it will not be possible to
consider the applications received after the deadline due to
administrative reasons.)

Language:

English

Organizers:

The International Atomic Energy Agency (IAEA)

**Host Country
Organizer:**

Mr. Pierre Jean Laurent Lagoda
Section Head
Plant Breeding and Genetics Section, Joint FAO/IAEA Division of
Nuclear Techniques in Food and Agriculture
Department of Nuclear Sciences and Applications
International Atomic Energy Agency
Tel No: +43 1 2600 21626
Email: P.J.L.Lagoda@iaea.org

Purpose:

The overall objectives of the meeting are to:

- discuss and finalize the details of the activities stipulated in the work plan to be implemented under the new RCA project RAS5056.
- review the current status of mutation breeding approaches and crop varieties in RCA member states, identify and address gaps and needs for advanced mutation breeding approaches and techniques to develop new crop varieties adaptable to climate change
- review the current status of best fit soil and water management practices in RCA member states, identify and address gaps and needs for the application of integrated

mutation/soil and water management technology packages to spread new crop varieties adaptable to climate change

Expected Outputs: The meeting will discuss, review, and update a regional work plan and national work plans for implementation of the new RCA project RAS5056, with the following expected outputs:

- detailed regional work plan and activities, and agreed national work plans for implementation;
- draft of the prospectus for regional training courses and information sheets for regional meetings, with potential host countries identified;
- a meeting report of the Project Planning and Coordination Meeting, including a summary of the current status of plant mutation breeding in the RCA region;
- consolidated list of expert missions required by the participating Member States, detailing/providing the scope of these activities and tentative schedules;
- list of essential procurement items and justification; and
- strategy for implementation of technical cooperation among developing countries (TCDC), suggesting which countries could provide expertise on which activities/tasks.

Scope and Nature:

The meeting will discuss the new RCA project RAS5056 for the TC cycle 2012-13. It will detail the regional work plan and activities for facilitating its implementation, including:

- review and preparation of the model national work plans with reference to the regional work plan of the project;
- developing a strategy to upgrade the national capability, MS skills and laboratories; strengthening the network of cooperation among the project participating Member States;
- discussion of the training needs of the RCA member states regarding plant mutation breeding techniques and biotechnology, isotope techniques in assessment to fertilizer and water efficiency use; and
- production of guidelines and recommendations for enhancing the transfer of plant mutation breeding technologies and nuclear technology based soil and water management practices to RCA member states addressing their present needs and specific gaps in past projects with the same nature

Background Information:

Food security and human nutrition are still major concerns in the Asia and the Pacific region, where the population is growing rapidly with

large areas of crop lands disappearing due to urban and industrial development. This issue is now exacerbated by the climate change and variability with widespread water scarcity. With agriculture consuming about 70% of the freshwater use by traditional irrigation methods that are highly inefficient (only about one-third of the applied water is actually transpired by the crops), there is great scope for improved irrigation management. Intensification of agricultural production to meet growing market demand requires the simultaneous application of irrigation water and fertilizers. Application of fertilizer in drip irrigation (fertigation) is an effective way to promote efficient use of these scarce and expensive resources. Fertigation is a technology particularly suited to peri-urban agriculture where land is scarce and the emphasis is on the production of high-value crops. Application of fertilizers with irrigation water (fertigation) has several advantages over the traditional methods of irrigation and fertilizer application. Using fertigation technology, the time and rate of fertilizer applied can be regulated precisely to ensure optimal application of the exact amount of nitrogen (N) to the particular growth stage of the crops. This will improve the water and N use efficiency, decrease water and N lost through leaching and volatilization and minimizes ground water contamination. The application of N fertilizer in the irrigation water is also a more convenient and less expensive method compared to the traditional methods. Nevertheless, information on the form and concentration of the nutrients required for different crops is still lacking. Inputs of water and fertilizers were mostly empirically based, without local calibration. Mutation breeding techniques have played a very significant role in developing new mutant varieties that are superior in both yield and quality parameters. By the end of 2009, 1877 mutant varieties, which account for more than 60% of the total number of mutant varieties in the world, have been released or approved for cultivation in the Asian and Pacific region. The previous RCA projects have focused on enhancing crop genetic diversity, improving stress tolerance, and establishing a mutant germplasm network. The results have provided a very good foundation for the integrated improvement of crops, by concentrating not only on the improvement of genetic resources, but also on optimising their agronomic management. This is of increased relevance and importance in the context of the future need for adaptation to combat predicted climate change. This much-needed boost to crop productivity will contribute to addressing the region's rising demand for food in a timely manner. It will also contribute to increasing the production of high-value crops for domestic and export markets, thus making a difference to hundreds of thousands of smallholder farmers through sustainable improvement of livelihoods. To maximize the benefits of the genetically-improved high value crops, it will be necessary to disseminate and field test these new varieties at multi-locations within the region, including farmers' fields, where the benefits of fertigation in terms of maximizing yields while saving water and fertilizer can be

demonstrated and measured.

Participation: National Project Coordinators (NPCs) or alternate NPCs in the NPCs' absence. Each Member State may submit one nomination.

Participants' Qualifications: Candidates must be National Project Coordinators (NPCs), or in their absence, alternative NPCs who have experience with plant breeding and/or mutation induction and/or soil and water management practices. The candidates should have been involved in activities in this field at national level.

Nomination Procedure: Nominations should be submitted on the standard IAEA Nomination Form for Meeting/Workshop and National Consultant (available on the IAEA web-site: <http://www.iaea.org/>). Completed forms should be endorsed by relevant national authorities and returned to the Agency through official channels, i.e. the office of the National RCA Representative.

The applications should contain sufficient information to establish the nominees have the required qualifications. The nominated candidate may not be selected if sufficient information is not provided.

Applications must be received by the International Atomic Energy Agency, P. O. Box 100, A-1400 Vienna Austria, not later than **6 February 2012** Nominations received after this date or which have not been routed through established official channels, cannot be considered.

Advanced nominations through facsimile (+43-1-2600-7), or e-mail (Official@iaea.org) are welcomed. The facsimile / e-mail should contain the following basic information about the candidate: name, date of birth, academic qualifications, and current position including the exact nature of the duties carried out, proficiency in English and full contact address including telephone/email/facsimile numbers.

Security in the Field:

It is recommended that the meeting participants complete the courses *Basic Security in the Field: Safety, Health and Welfare (BSITF)* and *Advanced Security in the Field (ASITF)*, prior to traveling to locations where UN security phases are in effect. The aim of these courses is to educate participants on how best to avoid or minimize potential dangers and threats, and to show what individuals can do if they find themselves in insecure situations.

The courses are available on the following UN websites that can be accessed using Microsoft Internet Explorer:

- BSITF: <http://dss.un.org/BSITF/>
- ASITF: <http://dss.un.org/ASITF/>

If you have difficulty using the websites, a CD-ROM can be obtained from your IAEA National Liaison Officer or from IAEA.

Once the candidate has completed the courses and passed the accompanying exams, certificates will be generated automatically and must be printed for submission to the IAEA (either as an e-mail attachment or by fax). Copies of the certificate should be kept by the candidate for his / her records, as they are valid for a period of three years.

Administrative and Financial Arrangements:

Nominating Governments will be informed in due course of the names of the candidates who have been selected and will, at that time, be given full details on the procedures to be followed with regard to administrative and financial matters.

Selected participants from countries eligible to receive technical assistance will be provided with a round trip economy class air ticket from their home countries to **Vienna, Austria** and a stipend sufficient to cover the cost of their accommodation, food, and minor incidentals. Shipment of accumulated meeting materials to the participants' home countries is not the responsibility of the IAEA.

The organizers of the meeting do not accept liability for the payment of any cost or compensation that may arise from damage to or loss of personal property, or from illness, injury, disability or death of a participant while he/she is travelling to and from or attending the course, and it is clearly understood that each Government, in nominating participants, undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.



Department of Technical Cooperation

<http://tc.iaea.org>

You are in : TC Home » Participation » In meetings/ workshops

Participation in meetings/workshops or as a national consultant

The Agency organizes meetings and workshops under its Technical Cooperation programme, and also arranges for missions of individuals from recipient Member States (national consultants) to Agency headquarters or other locations.

The purpose of meetings/workshops typically is to work out a set of recommendations and advice on or analyses of particular aspects of individual projects or of specific programmatic areas. The purpose of a national consultant assignment typically is to gain familiarity with Agency practices and procedures or to hold consultations on one (or more) specific project(s).

Participation in meetings/workshops and in national consultant assignments is upon invitation only.



[TC Feedback](#) | [TC Glossary](#)

Project information

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**Download the
Nomination Form for
Meeting/
Workshop/ National
Consultant**

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**Guide for Vanbreda
International
Insurance Scheme**

[\[English\]](#) [\[French\]](#)
[\[Spanish\]](#)

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International Atomic Energy Agency

NOMINATION FOR MEETING/WORKSHOP and NATIONAL CONSULTANT

Note: This form is only to be used for Technical Cooperation Meetings/Workshops and National Consultant missions.

The Government (nominating authority) of _____ (country)
 nominates the person indicated below for the following event (please specify title, place, dates, project number):

<input type="checkbox"/> Female	<input type="checkbox"/> Male	Date of birth:
Family name (as in passport):		Place of birth:
First name:		Nationality:
Complete mailing address (office):		Passport No.:
Inst. Name:		Date of issue:
Street:		Place of issue:
P.O. Box:	Post Code:	Valid until:
Town/City:		Telephone (office):
Region/District:		Telephone (home):
Country:		Fax:
Airport/town nearest to residence:		e-mail:
		WEB page:
		Emergency Phone:

Main academic/technical qualification:**Language Ability**

The nominating authority confirms that the nominee is proficient in the language in which the event is held. ☐ yes

Current employment

Name and place of employer/organization:

Title of position:

Type of work:

Description of work (Past work done by the nominee which is relevant to the Meeting/Workshop/National Consultancy)

Health (mandatory for health insurance purposes) Is the nominee in general good health: ☐ yes ☐ no
 The nominee is only covered under the health insurance policy if he/she does not have a medical condition which excludes him/her from travelling and performing this assignment:

A medical certificate is required for any nominee over 60 years of age, stating that he/she is in good health and able to undertake the mission

Is the nominee covered under a radiation surveillance programme? ☐ yes ☐ no

Involvement in IAEA-supported activities (Please mark any previous activities)

☐ Expert Mission ☐ Training Course ☐ Workshop/Meeting ☐ Fellowship/Scientific Visit ☐ Research Contract

STATEMENT

The nominating authority gives the following assurances:

- All information supplied in this form is complete and correct;
- It is noted that the sponsoring organization(s), host country(ies) and host institution(s) do not accept liability for the payment of any costs or compensation arising from damage to or loss of personal property, or from illness, injury, disability or death of the nominee while he/she is travelling to and from or attending the Meeting/Workshop/National Consultancy and it, the nominating authority, undertakes the responsibility for such coverage;
- The position of the nominee will be retained for him/her and he/she will continue to receive during the Meeting/Workshop/National Consultancy a salary and related emoluments to enable him/her to meet his/her financial commitments in his/her home country;
- The selected nominee will conduct himself/herself in a manner compatible with his/her status as a participant in an IAEA event and will refrain from engaging in any political and commercial activities;
- No facts are known to the nominating authority regarding the reliability and character of the nominee which would obstruct giving him/her access to nuclear installations or institutions where ionizing radiation is used;

Date

Name and title (printed) and signature of nominating authority official

P-2 TCHP MW/REV.4 (JUNE 05)

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National RCA Representatives

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Permanent Missions RCA Member States

COUNTRY	FAX NUMBER
AUSTRALIA	504 1178
CHINA	370 6626
INDIA	505 92 19
INDONESIA	479 05 57
JAPAN	263 6749
KOREA, REP. OF	478-1013
MALAYSIA	505 79 42
MONGOLIA	535 280 720
NEW ZEALAND	505 3020
PAKISTAN	367 1831 / 368 7376
PHILIPPINES	533240124
SRI LANKA	5037993
THAILAND	4782907
VIETNAM	3680754
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SINGAPORE	+41 22 796 8078