

# **Ninth Meeting of the Senate**

**19<sup>th</sup> December, 2013, 11:00 hrs**

## **AGENDA**



**ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH**

**Anusandhan Bhawan, 2 Rafi Marg, New Delhi-110 001**

# Academy of Scientific and Innovative Research

## Agenda for the Ninth Meeting of the Senate

19<sup>th</sup> December, 2013; 11:00hrs

Venue: Room No. 101, Anusandhan Bhawan, CSIR HQ, New Delhi-110 001

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## Initiation of the Meeting

### **Item No. 1: Welcome address by the Acting Director, AcSIR and Chairman of the Senate**

Remarks by the Chairman, Senate of Academy of Scientific and Innovative Research (AcSIR) welcoming all the members for attending the meeting.

### **Item No. 2: Confirmation of the minutes of the 8<sup>th</sup> meeting of the Senate of AcSIR held on August 2, 2013**

The eighth meeting of the Senate of AcSIR was held on August 2, 2013 at Room No. 101, Anusandhan Bhawan, Rafi Marg, New Delhi.

The proceedings of the 8<sup>th</sup> meeting were accepted by the Chairman and were circulated among the members of the Senate by e-mail on August 13, 2013 for their comments/ observations.

No comments have been received from any of the members.

The minutes are being put to the Senate for confirmation as **Annexure A-I**.

### **Item No. 3: Action taken Report on the 8<sup>th</sup> Meeting of the Senate of AcSIR held on August 2, 2013**

The statement showing the actions taken on the Proceedings of the 8<sup>th</sup> meeting of the Senate of AcSIR held on August 2, 2013 is placed for information of the Senate as **Annexure-II**.

## Items for Ratification

### Item No. 4: Ratification of Admissions in August 2013

#### (i) PhD Admission in CSIR-CCMB and CSIR-IMMT

The admission of students for Ph.D. program in Science and Engineering in CSIR-CCMB and CSIR-IMMT could not be ratified at the last meeting of the Senate. In all, **4 students** were selected for Ph.D (Biological Science) in CSIR-CCMB and a total of **26 students** (12 in Engineering Science, 12 in Chemical Science, 1 in Biological Science, 1 in Physical Science) were selected at CSIR-IMMT in August 2013 session.

The list of selected candidates along with appropriate approvals from the respective Deans and the Chairman, Senate are being submitted to Senate for ratification as **Annexure A-III**.

#### (ii) Special consideration for Mr. Gunjan Purohit, CSIR-IGIB and Mr. P.B. Agarwal, CSIR-CEERI

One of students of CSIR-IGIB, Mr. Gunjan Purohit, had cleared CSIR SRF interview of CSIR-IGIB held on 9 September 2011 but applied for SRF in 2012 and received the fellowship. He had applied through proper channel (Online portal) vide form number 13004 for August 2013 session. He has now joined as an AcSIR-PhD student under Dr. Shantanu Chowdhury. Being a SRF, he has been enrolled following the laid down procedure.

The details of the admission are being placed as **Annexure A-IV** along with approval from the Dean of Biological Science.

A special case for AcSIR-PhD-August 2013 enrollment for a scientist at CSIR-CEERI, Pilani, Mr. Pankaj Bhooshan Agarwal was forwarded by Director, CSIR-CEERI to the then Acting Director, AcSIR, Prof. Gautam Biswas (with a copy to DG-CSIR).

The student had joined CSIR-CEERI in January 2005 after his M.Tech from NIT-Kurukshetra. The work for his PhD is in multi-disciplinary areas of study.

Provision is there in the approved Ordinance 3 of AcSIR for CSIR Scientists to be considered eligible to apply for Ph.D following the stipulated criteria.

This is being placed as **Annexure A-V** along with approval from Acting Director, AcSIR.

## Item No. 5: Course Related Items

### (i) Introduction of New Courses for PhD program:

(a) Biological Sciences at CSIR-IITR

(b) Additional Course in Engineering Sciences at CSIR-IMMT

A few new courses have been planned to be introduced from January 2014 session by a few labs, as mentioned above, which have received recommendation of respective Deans and approval from Chairman, Senate.

These are being placed for ratification as **Annexure A-VI (a)** along with all relevant documents.

(c) Chemical Sciences at CSIR-AMPRI (under review by Dean, Chemical Sciences)

This course will be taken up for approval/ ratification in the next Senate meeting with corrected nomenclature and L-T-P-C distribution.

### (ii) Modification of courses

(a) Engineering of Structures (EoS) course at CSIR-SERC for Integrated M.Tech-Ph.D in Engineering program

(b) Modification of one course at CSIR-IITR for PhD program

In an ongoing effort to keep the course updated and relevant to the programs offered at different labs, above mentioned courses with appropriate modifications are being placed for ratification as **Annexure A-VI (b)** along with recommendation of respective Dean and approval from the Chairman, Senate.

### (iii) Ratification of courses for the second semester of Integrated M.Sc-PhD in collaboration with Public Health Foundation of India (PHFI)

The courses for the programs in Clinical Research and Health Informatics for the second semester as approved by the Dean is being enclosed as **Annexure A-VI (c)**.

(iv) **Renaming of specialization of Integrated M.Tech-PhD program being offered by CSIR-NML**

CSIR-NML till the year 2012 offered “**Mineral Processing, Metal Extraction & Resources & Waste Management**” as specialization under Integrated M.Tech-PhD program of AcSIR but it has been decided now that it may be renamed as “**Materials & Metallurgical Engineering**”.

The recommendation from the respective Dean and approval from Chairman, Senate is being placed as **Annexure A-VI (d)** for ratification by the Senate.

**Item No. 6: Results of Viva Voce Examination for PhD students**

Three students of AcSIR have submitted Theses and have completed all the academic requirements including CSIR-800 project. They have successfully defended their Theses in an open forum; following are the relevant details of the 3 students:

S. No.	Enrollment No.	Student Name	Lab Name	Session	Faculty
1	10CC11J16009	Mr. Sukdeb Saha	CSIR-CSMCRI	January 2011	Chemical Sciences
2	10CC11J26104	Ms. K.S. Thushara	CSIR-NCL	January 2011	Chemical Sciences
3	10BB11J22024	Ms. Gulshan Singh	CSIR-IITR	January 2011	Biological Sciences

The recommendations of the respective Oral Examination Board (OEB) of the above mentioned students are being placed for ratification (**Annexure A-VII**) by the Senate for the award of the Ph.D degree in Science.



## Items for Information

### Item No. 7: Student Related Items

#### (i) Transfer of Students enrolled at AcSIR PhD program from CSIR-IHBT to CSIR-CDRI

The following two students have applied for transfer of laboratory to CSIR-CDRI from CSIR-IHBT since their respective Advisors have transferred to CSIR-CDRI:

Old Enrollment No.	New Enrollment No.	Student Name	Session	Advisor
10CC11A33012	10CC11A04005	Ms. Saima	August 2011	Dr. A.K. Sinha
10CC12J33010	10CC12J04020	Mr. Aditya G. Lavekar	January 2012	Dr. A.K. Sinha

Members may kindly take a note of the transfer of students. Necessary approvals are enclosed as **Annexure A-VIII (a)**.

#### (ii) Change of faculty

The following students have received approval of the concerned Deans and the Chairman, Senate for change of faculty and re-allocation of Advisor and Co-Advisor:

Old Enrollment No.	New Enrollment No.	Student Name	Session	Lab	Advisor Co-Advisor
<b>Change of faculty from Physical Sciences to Biological Sciences</b>					
10PP12J15003	10PB12J15003	Ms. Manpreet Kaur	Jan 2012	CSIR-CSIO	Dr.Swaranjit Singh, CSIR-IMTECH Dr. C. Ghanshyam, CSIR-CSIO
10PP13A15003	10PB13A15003	Mr. Harjodh Singh	Aug 2013	CSIR-CSIO	Dr.Swaranjit Singh, CSIR-IMTECH Dr. C. Ghanshyam, CSIR-CSIO
<b>Change of faculty from Chemical Sciences to Physical Sciences</b>					
10CC12A05009	10CP12A05009	Mr. K. Balakumar	Aug 2012	CSIR-CECRI	N.A.

Members may kindly take a note of the change of faculty of students at CSIR-CSIO and CSIR-CECRI. Necessary approvals are enclosed as **Annexure A-VIII (b)**.

**Item No. 8: Induction of Co-guide from NIT-Rourkela at CSIR-CIMFR**

A student of CSIR-CIMFR, Dhanbad Md. Tanweer, Integrated M.Tech-PhD program, batch 2012-14 (Enrollment No.: 30EE12A43003) is doing his dissertation project titled “To study the various standing mine support parameters and its optimization through fuzzy logic” under supervision of Dr. S.K. Kashyap of the institute. In view of updated laboratory facilities and knowledge base for the new applied technique available at NIT-Rourkela, it was proposed to appoint Prof. D.R. Parthi, Department of Mechanical Engineering as a Co-Guide/ Co-Advisor to the student.

The recommendation of Dean, Engineering Sciences along with approval from Chairman, Senate is being placed as **Annexure A-IX**.

**Item No. 9: Statutes and Ordinances of AcSIR, as approved by the BoG**

The Senate, in its 8<sup>th</sup> meeting held on August 2, 2013 had authorized the Chairman to make modifications in both the documents, if necessary, and approve the Statutes and Ordinances on behalf of the Senate and forward those to the Board of Governors for its formal approval at its next meeting.

The Board, in its Fourth meeting held on December 5, 2013 approved the Statutes and Ordinances and approved that the Statutes and Ordinances be considered ‘enacted’ from November 10, 2013 when it was approved by the Chairman, BoG.

The final approved versions of the Statutes and Ordinances are enclosed as **Annexure A-X and Annexure A-XI**.

## Items for Discussion and Approval

### Item No. 10: Transfer of students from JNU to PhD program of AcSIR at CSIR-CFTRI

The following seven students were registered in Jawaharlal Nehru University (JNU), New Delhi through JNU-CIMAP PhD program under the supervision of Prof. Ram Rajasekharan (6 students) and Dr. Malathi Srinivasan (one student). These students have now transferred from CSIR-CIMAP, Lucknow to CSIR-CFTRI, Mysore as their supervisors have moved to CSIR-CFTRI from CSIR-CIMAP.

S. No.	Student Name	Advisor
1	Pradeep Kumar Yadav	Prof. Ram Rajasekharan
2	Kamlesh Kumar Yadav	Prof. Ram Rajasekharan
3	Neelima Singh	Prof. Ram Rajasekharan
4	M. Jayaprakash Rao	Prof. Ram Rajasekharan
5	Praveen Kumar Rajvanshi	Prof. Ram Rajasekharan
6	Madhuri Arya	Prof. Ram Rajasekharan
7	Priya Kumari	Dr. Malathi Srinivasan

These students have already completed their coursework and all other formalities required for registration. It has been requested to change their enrollment from JNU-CIMAP PhD program to PhD program of AcSIR under faculty of Biological Sciences accounting their course work and research time spent under JNU.

The Senate is to note that Credit Transfer Policy of AcSIR allows transfer of up to a maximum of 4 credits for the Doctoral program from accredited institutions, provided the courses is similar in scope and content to the courses offered at AcSIR. Necessary steps need to be taken by the Coordinator for the credit transfer following the procedure. In addition to above, the students would require to complete the Project Proposal, Review Article and CSIR-800 Project (400 level courses of AcSIR) before taking the Comprehensive exam before submission of Thesis.

The Senate is requested to approve the transfer of the students in-principle. The concerned Dean and the Associate Director (Academic) may advise the Coordinator about the credits that may be transferred and the fulfillment residency requirement, if any.

Relevant documents are enclosed as **Annexure A-XII**.

### **Item No. 11: Request from a student of CSIR-IHBT to resume PhD after maternity leave**

A request has been received from Prof. Arvind Gulati, Coordinator, CSIR-IHBT for kind permission to Ms. Bindu Rana (Enrollment no.: 10BB11J33018 of January 2011 session) allowing her to resume her PhD courses after a break due to maternity leave and medical complications. She could not attend the PhD coursework from October 20, 2012 to October 22, 2013 due to above cited reasons.

It is requested to allow her to join the PhD coursework and granting her benefit of residency period and carrying forward the credits earned earlier.

Request as above is enclosed as **Annexure A-XIII**.

### **Item No. 12: Special consideration for PhD in AcSIR**

Request has been received from Prof. B.K. Mishra, Director, CSIR-IMMT and member of the Senate for consideration of Mr. Snehasis Behera, Principal Scientist, CSIR-IMMT, Bhubaneswar to enroll for PhD in AcSIR in the area of "Engineering Sciences" as his area of expertise does not exist in local Universities/ Institutions in Bhubaneswar.

Ordinance 3 of AcSIR allows CSIR Scientists to be considered eligible to apply for PhD following the stipulated criteria. The Senate is requested to consider the request and evaluate Mr. Snehasis Behera's candidature for enrollment for PhD at CSIR-IMMT from AcSIR.

Requests as above along with relevant documents are enclosed as **Annexure A-XIV**.

**Item No. 13: Clarification regarding Mathematics course being conducted at CSIR-NIO without Senate ratification**

Prof. K.S. Krishna, Dean (Physical Sciences), Member of Senate, AcSIR and Dr. Shankar Doraiswamy, CSIR-NIO, Member of Senate, AcSIR have apprised Prof. Nagesh Iyer, Acting Director, AcSIR and Chairman, Senate about the running of a course without approval of Dean, AcSIR and the Senate, AcSIR.

Senate is requested to devise a mechanism to ensure that only those courses shall run at the CSIR Laboratories under the AcSIR degree programs which are approved by it.

**Item No. 14: Proposal for starting a Diploma in the emerging area of Patinformatics**

A proposal has been received from Prof. Raj Hirwani, CSIR-URDIP to start a Diploma in emerging area of Patinformatics under the aegis of AcSIR. The term “Patinformatics” describes the science of analyzing patent information to discover relationships and trends that would be difficult to see when working with patent documents on a one-on-one basis. It basically includes all forms of analyzing patent information including the following but not limited to:

- › Patent Intelligence
- › Patent Mapping
- › Patent Citation Analysis

There is provision in the approved Statutes of AcSIR for offering “Diploma in areas offering new knowledge”. Due procedure needs to be followed for initiating such a program at AcSIR. The proposal along with broad framework is enclosed as **Annexure A-XV** for discussion and approval at the Senate.

## **Item No. 15: Student Related Issues**

### **(i) Eligibility of candidates having Science UG degree for enrolling in PhD (Sciences) and finalization of modalities**

The provision for Direct PhD already exists for Engineering students having UG degree as approved by the Senate in its 7<sup>th</sup> Meeting held on April 5, 2013. A few requests have been received from students, faculty and Coordinators of different laboratories for introduction of a similar Direct PhD program in Science for students after their UG degree.

The Senate is requested to consider the proposal to formulate the academic requirements and course/credit requirement details so that the program could be initiated.

### **(ii) Eligibility of candidates with Science degree for doing Industry Sponsored PhD in AcSIR and finalization of modalities**

The provision for PhD in Engineering already exists for candidates having Industrial sponsorship as “Sponsored Students” as approved by the Senate in its 7<sup>th</sup> Meeting held on April 5, 2013. A few requests have been received from students, faculty and Coordinators of different laboratories for introduction of a similar PhD program in Science for the “Sponsored” candidates.

The Senate is requested to consider the proposal to formulate the academic requirements and course/credit requirement details so that the program could be initiated.

### **(iii) Avenues for students with no fellowship**

The objective of the academy is not only to register students who have qualified examinations that offer fellowships like the National Eligibility Test or have some Industrial Sponsorship but also to attract bright young minds who might not have qualified such examinations or sponsorship but in terms of research capabilities might be at par or better than the students holding fellowships/ sponsorships. Thus, the admission procedures should be flexible enough to admit such students.

The Senate is requested to formulate a procedure having mechanisms (evaluation procedures) in place but ensure that quality of students is not compromised by having such flexibility.

One such request is enclosed as **Annexure A-XVI**.

**Item No. 16: Residency Related Issues:**

- **with respect to residency period prior to application for enrollment**

The opportunity exists for research scholars at CSIR Laboratories to apply for PhD programs at AcSIR. and, in some cases there is a minimum residency period to be fulfilled prior to the enrollment (e.g. for Project Assistant it is 1 year).

The Senate is requested to opine whether there should be a cap on maximum period of residency up to which the student will be allowed to apply.

- **in case a student fails to complete academic requirements within the maximum stipulated period**

It is possible that a PhD student might not be able to complete his/her studies within the maximum duration set by AcSIR. It would be important that AcSIR has a well-defined guidelines to deal with such cases including payment of tuition fees.

The Senate is requested to opine as to what could be financial and academic impacts on student, if he/ she fails to complete research work with in maximum stipulated period.

## Item No. 17: Faculty Related Issues

### (i) Updated List of Faculty members (drawn from the CSIR system)

Senate in its last meeting of August 2, 2013 approved the 'Faculty Guidelines of AcSIR'. The collated list of faculty drawn from the CSIR system as per 'Faculty Guidelines of AcSIR' is being placed as **Annexure A-XVII (a)** for approval of the Senate.

### (ii) Special requests received for consideration

Requests have been received for consideration of a few points in the Faculty guidelines of AcSIR:

- » Prof. B.K. Mishra, Director, CSIR-IMMT and member of the Senate has proposed that each aspiring faculty (both in Engineering Sciences & Sciences) of AcSIR must have PhD degree irrespective of his/her position.
- » Dr. Sriparna Chatterjee, INSPIRE Fellow of CSIR-IMMT has requested for consideration of INSPIRE faculty as faculty member of AcSIR.

The Senate is requested to consider the proposals enclosed as **Annexure A-XVII (b)**.



### (iii) Adjunct Faculty members at CSIR-CBRI and CSIR-NML

Proposals have been received from CSIR-CBRI and CSIR-NML for inclusion of a few Adjunct Faculty of high national and international repute to be inducted as Adjunct Professors of the Academy.

Lab Name	Proposal for	Faculty
CSIR-CBRI	Prof. M.N. Viladkar, Prof. of Geotechnical Engineering, Deptt. of Civil Engineering, IITR Roorkee	Engineering Sciences
CSIR-NML	Prof. Sirshendu De Deptt. of Chmical Eneering, IIT Kanpur Dr. Shantanu Chakrabarti Former Head Research Application, R&D, Tata Steel, Jamshedpur Dr. Achintya Kumar Das Advisor, M N Dastur & Company Dr. Ashok Kumar Chief Technology Officer, Process, Tata Steel	Engineering Sciences

The brief resumes of above distinguished faculties are being placed to Senate for consideration and approval for position of Adjunct Faculty in AcSIR as **Annexure A-XVII (c)**.

**(iv) Proposal of awarding Emeritus Professorship to Dr. S.V. Eshwaran**

Considering the eminence of Dr. S.V. Eswaran, Former Head, Department of Chemistry & Dean (Academics), St. Stephen's College, University of Delhi, a request has been received from Prof. Pushpito K. Ghosh, Director, CSIR-CSMCRI, Bhavnagar to recognize him as an Emeritus Professor of AcSIR, which is an honorary position.

The resume of Dr. Eswaran is enclosed as **Annexure A-XVII (d)**.

**(v) Proposal of awarding Adjunct Professorship to Prof. J.B. Joshi**

Considering the eminence of **Prof. J.B. Joshi**, DAE-Homi Bhabha Chair Professor, Homi Bhabha National Institute, Mumbai and J.C. Bose Fellow, Institute of Chemical Technology, Mumbai, a request has been received from Prof. Lakshmi Kantam, Director, CSIR-IICT and Member of the Senate to recognize him as Professor of AcSIR.

The resume of Prof. Joshi is enclosed as **Annexure A-XVII (e)**.

**Item No. 18: Roles and Responsibilities of Deans and Associate Deans of AcSIR**

The Academy is now in full swing having around 2500 students all over India, it is imperative to have discreet roles and responsibilities of office bearers of AcSIR.

The Senate is requested to consider and deliberate on the roles and responsibilities of Deans and Associate Deans of AcSIR which are enclosed as **Annexure A-XVIII**, which may be approved with modifications, if any.

**Item No. 19: Annual Calendar of AcSIR**

In order to ensure smooth running of AcSIR which has pan-India footprint, the Annual Calendar of AcSIR has been prepared.

Board of Governors of AcSIR has already approved the calendar and advised the Senate also to finalize the dates for holding its meetings.

The detailed annual calendar is enclosed as **Annexure A-XIX**.