Global commitment; Sealing the deal in line with COP 21
Dear Readers,

At the outset, I would like to congratulate all for ratifying the historic Paris Climate Change Agreement at the United Nations on 2nd October, 2016, the Gandhi Jayanti day. The agreement is expected to give momentum to the implementation of measures at the international level to control global warming. We would like to congratulate all the officials from India and United Nations, senior diplomats to commemorate Mahatma Gandhi’s birth anniversary.

I would also like to congratulate all the awardees of Raman-Charpak and ESONN Fellowships of the year 2016 for their selection under these flagship programmes of CEFIPRA. During this period, the Centre also successfully organized its first meeting of the Revised Vision Group and meetings for reviewing the Memorandum of Association (MoA) & Byelaws of the Centre which are dated 29 years back.

This issue of ENSEMBLE also focuses on the Centre’s involvement in various seminars and other events related to the scientific developments between India & France and I thank all the stakeholders for their support and guidance.
Leader

An Effort Towards More Sustainable Future

Climate change is one of the greatest challenges present for humanity in 21st century. The consequences of the decisions we take or fail to take will be mainly borne by our future generations. Reining in climate change carries a cost, but doing nothing will be far more expensive in the long run and will even jeopardize the very existence of mankind. Therefore, combating climate change is a top priority for both India and France. The two nations are working hard to cut its greenhouse gas emissions and reduce their carbon footprint for the planet.

The 21st Conference of the Parties to the United Nations Framework Convention on Climate Change (UNFCCC), COP21/CMP11 was held in Nov./Dec., 2015 at Paris and a total of 196 nations were signatories to the UNFCCC, while reaching a consensus on tackling the crucial concern of climate change.

Acknowledged as one of the major leaders of the developing countries block; India is acclaimed to be a vital partner on the latest climate change summit in Paris. The nation is gradually taking a leadership role when it comes to climate change negotiations, and the developed world has already accredited this. (Source: East Asia Research Programme)

Further, India ratified the Paris Agreement on Climate Change by depositing the instrument of ratification with the United Nations on the 147th birth anniversary of Mahatma Gandhi. A special event was organized to mark the occasion, also observed as the International Day of Non-Violence, at the UN headquarters in New York, USA.

Photo Source: Twitter Account Vikas Swarup@ MEA
CEFIPRA congratulates all the officials and other senior diplomats from Government of India and United Nations for this breakthrough effort and their commitment towards more sustainable future.

CEFIPRA, being a facilitator for promoting the Science, Technology and Innovation (ST&I) cooperation between India and France, has already included Environmental Sciences as the priority area under its Collaborative Research Programme. A total of 17 projects have been supported by CEFIPRA under this area, involving prominent institutions from both the countries. In addition, 12 seminars/workshops have also been organized in this important area.

Also, to spread the awareness among our future generations, Centre has been actively supporting the doctoral students of both countries through fellowships in the areas of Earth & Atmospheric Sciences and Environmental Sciences, under its flagship programme called Raman-Charpak Fellowship.

In addition, considering the strong urge of the French and Indian governments to reinforce scientific collaboration to address prevalent and emerging challenges in water, the French Embassy in New Delhi and the Department of Science & Technology (DST) have joined hands for Indo-French Scientific Networking Programme in the field of water. This networking programme is being implemented by CEFIPRA.

**Official Reception on the Occasion of French National Day on 14th July, 2016 at New Delhi**

National Day of France was celebrated on 14th July, 2016 in New Delhi. An official reception was hosted by H.E the Ambassador of France in India, Mr. Alexandre Ziegler. Many dignitaries from France and India attended the event. Director, CEFIPRA also attended the reception.
Seminar on Challenges in the Processing and Recycling of Rare-Earths during 18 - 21st July, 2016 at Tata Research Development and Design Centre, Pune

A four day Indo-French Workshop on ‘Challenges in the Processing and Recycling of Rare-Earths (CIPRE)’ was organized during 18-21st July, 2016 at Tata Research Development and Design Centre, Tata Consultancy Services, Pune, India. The workshop was jointly organized by Tata Consultancy Services (TCS), Institut de Chimie Séparative de Marcoule (ICSM) France, Indian Rare Earths Limited (IREL) and CSIR-National Metallurgical Laboratory (NML), under the aegis of Industry-Academia Research and Development Programme (IARDP) of CEFIPRA. At the inaugural function, Dr. Beena Rai and Dr. Stephane Pellet-Rostaing, coordinators of the workshop, welcomed the participants and highlighted the key aspects of the workshop.

The overall goal of the workshop was to enable discussions on the challenges faced by the industry in India and France and the opportunities available to the researchers in both the countries to seek collaboration on topics of mutual interest.

Dr Baldev Raj, a distinguished scientist, former President, Indian National Academy of Engineering, and former Director, Indira Gandhi Centre for Atomic Research, Department of Atomic Energy, Kalpakkam and currently the Director, National Institute of Advanced Studies, Bangalore inaugurated the workshop on 19th July, 2016. The workshop had three essential features, namely technical lectures from invited experts, panel
discussions led by eminent experts in the field and discussion to workout joint research proposals. There were 20 technical presentations by leading experts from India and France on the topics related to current scenario and roadmap, extraction and separation technologies (solvent extraction), and applications of rare earths. Two panel discussions, led by experts from industries to deliberate about various challenges and opportunities, were also organized. The final day of the workshop was dedicated to three break-out sessions, where delegates worked towards the identification of a few challenging topics for possible joint research proposals. Around 50 delegates, including 8 from France, participated in the workshop, out of which nearly half the participants were from industries. The significant participation from the industry (both from India and France) made the discussions more broad based and imparted greater industrial relevance to the projects discussed during the workshop.

Some of the identified proposals which should be taken up for further collaboration are as follows:

- Design and development of selective extraction reagents (media and the extractant) based on molecular modeling computations (for example, nd/pr and er/tb), ionic liquids
- Design of flexible flow sheets for processing rare earth resources (variety and variability)
- REO to metal and alloys – creation of a rare-earths industry
- Rare-earths in steels and aluminium alloys
- Molten salt electrolysis for production of rare-earth metals
- A comprehensive technology demonstration program to process secondary resources like red mud, fly ash and phospho-gypsum (zero waste technologies)
- PCB pyrolysis and then recycling through copper smelters (Tin and Tantalum as a challenge)
- Collection systems for diffuse sources of waste
- Rare earth magnets scrap recycling

One important point which emerged during the discussions was an urgent need to create an ecosystem, so that there is commercial production of rare-earths and products containing rare-earths in the country. A book of abstract-cum-souvenir was also brought out on the eve of the workshop.

**Preliminary & Final Selection Committee meetings of Raman-Charpak Fellowship-2016 held on 21st July, 2016 and 24th August, 2016 at CEFIPRA office, New Delhi**

The meeting of preliminary selection committee for the Raman-Charpak Fellowship-2016 was held on 21st July, 2016 at CEFIPRA office, New Delhi. The meeting was attended by senior officials from Governments of India & France and Academic & Research Institutions from both countries along with Director, CEFIPRA and other staff members. The committee scrutinized the applications received from Indian and French candidates. After discussions and deliberations, the committee shortlisted the Indian and French candidates for consideration by the final selection committee.

Accordingly, the meeting for final selection committee for the Raman-Charpak Fellowship-2016 was held on 24th August, 2016 at CEFIPRA office, New Delhi. The meeting was again attended by some other senior officials from Governments of India & France, subject area experts along with the Director, CEFIPRA and other staff members. The candidates shortlisted in the preliminary selection meeting were considered for subject area-wise evaluation by the experts. After evaluation, the committee finally selected 31 Indian and French candidates for the fellowship. The results were declared on 7th September, 2016 on the website of CEFIPRA.

**Global Innovation Index-2016 Launch Event on 19th August, 2016 at Taj Mahal Hotel, New Delhi**

Confederation of Indian Industry (CII) in collaboration with NITI Aayog and Department of Industrial Policy and Promotion (DIPP) organized the launch event of Global Innovation Index-2016 (GII) Report on 19th August, 2016 at New Delhi.
CEIPRA has joined hands with Université Joseph Fourier (now Université Grenoble Alpes), Grenoble, France for supporting participation of Indian doctoral students to European School on Nano-sciences and Nano-technologies (ESONN) in Grenoble, France – Session 2016 (August 28th - September 17th, 2016).

ESONN is a three-week course aimed at providing training for graduate students, postdoctoral and junior scientists from universities and laboratories in the field of nano-sciences and nano-technologies in Physics, Biology and Chemistry. The academic and practical courses cover the elaboration, functioning and characterization of nano-objects.

For the year 2016, call for applications was launched in March, 2016 for the Indian doctoral students and following eight students were awarded the CEFIPRA-ESONN Fellowship -2016.

Mr. Kazi Rafsanjani Amin
Indian Institute of Science, Bangalore

Mr. Chetan Kumar
Vishwakarma
Indian Institute of Science Education and Research (IISER), Pune

Ms. Manila O.V
CSIR-Central Electrochemical Research Institute, Karaikudi

Ms. Manju Bala
Inter-University Accelerator Centre, New Delhi

Ms. Shweta Sharma
CSIR- Central Drug Research Institute (CDRI), Lucknow

Mr. Vinay Sharma
Indian Institute of Technology, Indore

Mr. Ankit Saneja
CSIR-Indian Institute of Integrative Medicine (IIIM), Jammu

Ms. Vidhi Vijaykumar Shah
Dharamsinh Desai University, Nadiad
India Africa Health Sciences Meet on 1-3rd September, 2016 at New Delhi

The Indian Council of Medical Research (ICMR)/Department of Health Research (DHR), Ministry of Health and Family Welfare, jointly with the Ministry of External Affairs organized the India-Africa Health Sciences Meet at New Delhi from 1-3rd September, 2016. Dignitaries & Participants for the meet included Honorable Ministers, bureaucrats, policymakers, medical specialists, researchers, and industry leaders from India and many African countries.

The India-Africa partnership, touted as a partnership of equals, is pillared on numerous similarities – social, health, financial and political. The common concerns and challenges of poverty, nutrition, sanitation, infrastructure, health and healthcare delivery, all demand innovative, sustainable, and regionally relevant solutions. Prominently, the commonalities between India and Africa in disease epidemiology, including infectious & non-communicable diseases and other health-specific issues can be well-addressed through collaborative research programmes focusing on population-based studies and disease specific product development, and help addressing the Sustainable Development Goals (SDGs) through generation of research evidence and validation.

Director, CEFIPRA was also invited and attended this important event between India and African nations.

Reviewing the Memorandum of Association (MoA) & Byelaws of CEFIPRA and Pension/ Post-Retirement Medical Benefit Schemes on 30th August, 2016 at CEFIPRA office, New Delhi

The Centre was established in 1987 and the MoA was prepared almost 30 years back at the time of its establishment. Whereas, the Byelaws of the Centre were approved in the 4th meeting of the Governing Body held in year 1990. Since then, enormous changes have taken place in the functioning of the Centre. Based on the recommendations of the 28th and 29th meetings of the Governing Body held on 13th April, 2015 at Paris and 4th March, 2016 at New Delhi respectively; a sub-committee comprising of the representatives of both the Governments were nominated by the Co-Chairs of the Governing Body of CEFIPRA.

The sub-committee on MoA and Byelaws met under the Chairmanship of Shri B.S Rawat, Joint Secretary (Admn.), DST in the forenoon of 30th August, 2016 at CEFIPRA office, New Delhi. The other members of the sub-committee were Dr. I.D. Gabba, Former Scientist G, DRDO, Dr. Philippe Arhets, Counsellor for Science and Technology, French Embassy in New Delhi and Dr. Rajiv Kumar, Scientist E, International Cooperation (Bilateral), DST.

Another meeting of the sub-committee for the Pension/Post-Retirement Medical Benefit schemes was held in the afternoon of 30th August, 2016 at CEFIPRA office, New Delhi. The meeting was conducted under the Chairmanship of Shri B.S Rawat, Joint Secretary (Admn.), DST. The other members of the sub-committee were Dr. Philippe Arhets, Counsellor for Science and Technology, French Embassy in New Delhi, Shri Himanshu Gandhi, Under Secretary (IFD),
DST, and Dr. Rajiv Kumar, Scientist E, International Cooperation (Bilateral), DST. Director, CEFIPRA and other officials of the Centre were also present for both the sub-committee meetings.

**First meeting of the Revised Vision Group held on 2nd September, 2016 at CEFIPRA office, New Delhi**

As per the decision of the 29th meeting of Governing Body held on 4th March, 2016, Vision Group was revised and 6 members (3 each from both sides) were nominated by the respective Governments.

The members on the Indian side are Prof D. D. Sarma, Professor of IISc, Bangalore, Prof. M.R.S. Rao, Honorary Professor of JNCASR, Bangalore and Prof. G Sundararajan, Professor of IIT-Madras. The members on the French side are Prof. Marc Benedetti, Professor of IPGP, Paris, Dr. Coumar Oudea, Head of Operations for R&T International Partnerships, Airbus Safran Launchers, Les Mureaux & Dr. Philippe Arhets, Counsellor for S&T, French Embassy in New Delhi.

The first meeting of the revised Vision Group of CEFIPRA was organized on 2nd September, 2016 at the CEFIPRA office, New Delhi. Dr. Coumar Oudea and Prof. Marc Benedetti joined the meeting through video conferencing facility from Paris, whereas Prof. G. Sundararajan joined the meeting through Skype from Chennai. Rest were present at CEFIPRA office, New Delhi.

Dr. Mukesh Kumar, Director, CEFIPRA welcomed all the members of Vision Group and briefed them about the various activities and programmes of the Centre. All the members expressed their appreciation for CEFIPRA and mentioned their association with various programme/activities of the Centre. The members discussed about the current programme profile of the Centre and noted the progress made over the past 29 years. The Centre is currently managing a total of 18 programmes (both Core and Non-Core) such as Collaborative Scientific Research, Industry-Academia Research, Seminars/Workshops, Public Private Partnerships (PPPs), Exchange visits for Scientists/Researchers, Students Fellowship/Mobility.
Programmes, etc. which are spread across the knowledge innovation chain. Members appreciated the role of CEFIPRA in providing a platform for other national funding agencies of India and France like, DST, French Embassy, Inria, ANR, INRA, BIRAC, TDB, Bpifrance, etc. to connect through different programmes implemented by the Centre.

The members provided valuable guidance and recommendations to the Centre and also suggested a potential roadmap for the future. Follow-up physical meeting of the Vision Group is scheduled to be held in January, 2017 at CEFIPRA office, New Delhi.

**World Sustainable Development Summit 2016 (WSDS 2016): Delhi Regional Dialogue for implementing the Paris Agreement; Partnerships for Innovation and Technology held on 9th September, 2016 at India Habitat Centre (IHC), New Delhi**

A seminar entitled “Implementing the Paris Agreement: Partnerships for Innovation and Technology” was organized jointly by The Energy Resources Institute (TERI) and the French Embassy in New Delhi on 9th September, 2016 at New Delhi. The Director, CEIFRPA moderated a panel discussion on “Creating Partnerships for Financing and Disseminating Technologies”. The seminar was inaugurated by H.E. the Ambassador of France in India, Mr. Alexandre Ziegler and was attended by several scientists, officials, policy makers and representatives from media. This event was the part of the regional dialogues series for World Sustainable Development Summit (WSDS) 2016.

**Joint Expert Committee meeting under Indo-French Challenge Oriented Programme in Red Biotechnology held on 13th September, 2016 at CEFIPRA office, New Delhi**

The BIRAC, a Govt. of India enterprise and the French Embassy in India, represented by the Science and Technology Service (SST) have joined together to support Indian and French collaborative projects in Red Biotechnology involving academic collaborators and biotech industry for promoting the S&T innovation in both the countries. On behalf of BIRAC & French Embassy in India, this programme is facilitated by CEFIPRA as the BIRAC-CEFIPRA-French Embassy Programme.

A Joint Selection Committee meeting was held on 13th September, 2016 at CEFIPRA office in New Delhi to evaluate a proposal under this programme. The participants were Dr. Philippe Arhets, Counsellor for Science & Technology, French Embassy in New Delhi, Dr. P.K.S. Sarma, Head, Technical (Discovery & Product Development), BIRAC, New Delhi, Dr. Sunil Bhand, Professor, BITS-PILANI, Goa Campus (Expert), Dr. Mukesh Kumar, Director, CEFIPRA and Dr. Aparna Sharma, BIRAC, New Delhi.
Training Programme on Developing Winning Research Proposals (DWRP) in Agricultural Research held during 20-24th September, 2016 at NAARM, Hyderabad

The National Academy of Agricultural Research Management (NAARM) of ICAR in Hyderabad conducted a training programme on “Developing Winning Research Proposals (DWRP) in Agricultural Research” during 20-24th September, 2016 at Hyderabad. The main objective of the training course was to prepare scientists for writing good quality research proposals. 67 new scientists recruited by ICAR recently and 15 senior level scientists from different laboratories of ICAR attended the training programme. Director, CEFIPRA was invited to take a session on “Donors’ Perspective” on 24th September, 2016 and he was also the Chief Guest for Valedictory Function in the afternoon of the same day.

The interactive discussion developed interest among young and senior scientists of ICAR wherein various opportunities of collaboration through CEFIPRA were also highlighted.

Signing of MoUs between IIT Delhi -Thales and IIT Delhi-CNRS-Telecom Bertagne on 27th September, 2016 at IIT Delhi

Memorandums of Understanding (MoUs) were signed between IIT-Delhi & Thales and another between IIT Delhi, CNRS & Telecom Bretagne at Senate Hall of IIT Delhi on 27th September, 2016. The event was attended by H.E. the Ambassador of France in India, Mr. Alexandre Ziegler and several scientists of IIT Delhi, officials of Thales, CNRS, Telecom Bretagne and Director, CEFIPRA. CEFIPRA congratulates all the stakeholders for this initiative of strengthening Indo-French ST&I cooperation.
Dr. Debapriya Dutta, Former Director (from September, 2012 to August, 2015) of CEFIPRA visited the Centre on 3rd August, 2016. Dr. Mukesh Kumar, Director, CEFIPRA presented a memento to him in recognition of his services to the Centre.

Mr. V. V. Rao, the Principal Scientist of CEFIPRA opted for voluntary retirement from the services of the Centre with effect from 1st September, 2016. He had joined CEFIPRA in December, 1995 as Scientist and promoted to Principal Scientist in January, 2004.

Former Directors & other officials wished him good luck for his post-retirement life in a function organized at India International Centre (IIC), New Delhi on 31st August, 2016.

**Forthcoming Events (Supported by CEFIPRA)**

- The Scientific Council & Industrial Research Committee meetings will be organized during 23-27th November, 2016 at Varanasi, India.

- Indo-French Seminar entitled “Indo-French Workshop on Advances in Phase-Change Thermal Systems” at Khajuraho, Madhya Pradesh, will be held during 27-30th November 2016. The coordinators are Dr. Sameer Khandekar, Indian Institute of Technology Kanpur, India and Prof. Frédéric Lefèvre, INSA - CETHIL, Villeurbanne, France.

**New Dates for Submission of Projects under Scientific Collaborative Research Programme from year 2017 onwards**

Proposal Submission cut-off dates for Scientific Collaborative Research Programme from the year 2017 onwards will be 15th January and 15th July each year.
## Mobility of scientists / researchers supported under CEFIPRA projects during July-September, 2016

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Project Title</th>
<th>Name / Institution Affiliation (from)</th>
<th>Name / Institution Affiliation (to)</th>
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<tbody>
<tr>
<td>1</td>
<td>sp3 C-H Bond Activation with Ruthenium(II) Catalysts: Application to the Synthesis of Aliphatic N-Heterocyclic Natural Products</td>
<td>Dr. Mathieu Achard, Université de Rennes 1, UMR6226 : Institut des Sciences Chimiques de Rennes, Rennes</td>
<td>Dr. G. V. M. Sharma, CSIR-Indian Institute of Chemical Technology, Hyderabad</td>
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<td>Original biocompatible phosphorus dendrimers as a new strategy to tackle pulmonary tuberculosis</td>
<td>Prof. Kishore K Srivastava, Central Drug Research Institute, Lucknow</td>
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<td>4</td>
<td>Correlated studies of response properties of Open-shell molecules in the relativistic Framework</td>
<td>Dr. Trond Saue, Université de Toulouse 3, Toulouse</td>
<td>Prof. Ankan Paul, Indian Association for the Cultivation of Sciences, Kolkata</td>
</tr>
<tr>
<td>5</td>
<td>Hypergeometric functions: harmonic analysis and representation theory</td>
<td>Dr. Angela Pasquale, Université de Lorraine – Metz, Nancy</td>
<td>Dr. E. K. Narayanan, Indian Institute of Science, Bangalore</td>
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<td>6</td>
<td>Sums of integers: Fourier, combinatorics, computation</td>
<td>Prof. Jean-Marc Deshouillers, Institut Mathématique de Bordeaux, Talence</td>
<td>Prof. Balasubramanian Ramachandran, The Institute of Mathematical Sciences, Chennai</td>
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<td>7</td>
<td>Molecular mechanisms of immune evasion by M. Tuberculosis</td>
<td>Prof. Jagadeesh Bayry, INSERM, Centre de Recherche des Cordeliens, Paris</td>
<td>Prof. K.N. Balaji, Indian Institute of Science, Bangalore</td>
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<td>8</td>
<td>CHROMiTe: Assessment of CHromium Release from sukinda mining Overburden: an IsoTopic, chemical, physical and microbiological study</td>
<td>Prof. Yann Sivry, Institut de Physique du Globe de Paris, Paris</td>
<td>Prof. S. Subramanian, Indian Institute of Science, Bangalore</td>
</tr>
<tr>
<td>9</td>
<td>Advanced time-domain integration schemes for the simulation of Earth and planetary core dynamics</td>
<td>Dr. Binod Srinivasan, Indian Institute of Science, Bangalore</td>
<td>Dr. Alexandre Fournier, Institut de Physique du Globe, Paris</td>
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<td>10</td>
<td>Study of neural development in hiPS models of microcephaly</td>
<td>Dr. Shyamala Mani, Indian Institute of Science, Bangalore</td>
<td>Dr. Pierre Gressens, INSERM, Hôpital Robert Debre, Paris</td>
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<td>12</td>
<td>LORIC: Long-Range Interactions in ultraCold gases</td>
<td>Dr. Sadig Abbas, Rangwala, Raman Research Institute, Bangalore</td>
<td>Dr. Olivier Dulieu, Laboratoire Aimé Cotton, Orsay</td>
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<td>14</td>
<td>Survey of soil-Si pools and contribution of Si fertilization in a sustainable rice cultivation in South India</td>
<td>Dr. G.G. Kadali, University of Agricultural Sciences, Bangalore</td>
<td>Dr. J.D. Meunier, CEREGE-Université d’Aix-Marseille III, Marseille</td>
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<td>15</td>
<td>Monte Carlo and Learning Schemes for Network Analytics</td>
<td>Prof. V.S. Borkar, Indian Institute of Technology-Bombay, Mumbai</td>
<td>Dr. Konstantin Avrachenkov, Inria Sophia Antipolis – Méditerranée, Nice</td>
</tr>
<tr>
<td>16</td>
<td>Olfactory Modulation of Insect Flight</td>
<td>Prof. Sanjay Sane, National Centre for Biological Sciences, TIFR, Bangalore</td>
<td>Dr Jean-François Ferveur, Centre des Sciences du Goût et de l’Alimentation, Dijon</td>
</tr>
</tbody>
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# Mobility of students supported under CEFIPRA Projects/Programmes during July-September, 2016

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<td>1</td>
<td>Advanced Computational Models to Facilitate Solar Activity and Space Weather Predictions</td>
<td>Ms. Prantika Bhowmik</td>
<td>Indian Institute of Science Education and Research, Kolkata</td>
<td>Institut de Recherche en Astrophysique et Planétologie, Toulouse</td>
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<td>2</td>
<td>Olfactory Modulation of Insect Flight</td>
<td>Mr. Nitesh Saxena</td>
<td>National Centre for Biological Sciences TIFR, Bangalore</td>
<td>Centre des Sciences du Goût et de l’Alimentation, Dijon</td>
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<td>3</td>
<td>Muscle SC self-renewal: A stressful matter?</td>
<td>Ms. Swati Dudhal</td>
<td>Université Paris Diderot, Paris</td>
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<td>CHROMiTe: Assessment of CHromium Release from sukinda mining Overburden: an ISO Topic, chemical, physical and microbiological study</td>
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<td>5</td>
<td>Phosphorus-supported multisite coordinating ligands for the assembly of polynuclearheterometallic (3d-4f) and homonuclear (3d) ensembles: Towards a new generation of molecular magnetic materials</td>
<td>Mr. Abhishake Mondal</td>
<td>Université de Bordeaux, Bordeaux</td>
<td>TIFR Centre for Interdisciplinary Sciences, Hyderabad</td>
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<td>6</td>
<td>Molecular analysis of a capacitor Hox protein motif</td>
<td>Ms. Rachel Paul</td>
<td>Indian Institute of Science Education and Research, Pune</td>
<td>Institut de Génomique Fonctionnelle de Lyon, Lyon</td>
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<td>16</td>
<td>CEFIPRA-ESONN Fellowship 2016</td>
<td>Ms. Vidhi Vijaykumar Shah</td>
<td>Dharamsinh Desai University, Nadiad</td>
<td>Université Grenoble Alpes, Grenoble</td>
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Technology Development Board (TDB), a statutory body of the Department of Science & Technology, Government of India and Bpifrance, a public investment bank, France have signed a Memorandum of Understanding (MoU) to carry out activities related to the exchanging of best practices and the setting up of coordinated measures to foster technological exchanges and innovation, collaborations between companies, organizations and institutions of France and India.

Under this MoU, TDB and Bpifrance, France has launched a joint Call for proposal(s) for Indian & French Companies/ Industries/ SMEs. On behalf of TDB, this joint call will be implemented by the Indo French Centre for Promotion of Advanced Research (IFCPAR/CEFIPRA). The targeted areas (with sub-areas in focus, but not limited to) for this call are: *Aeronautics, **Automotive & ***Biotechnology with special emphasis to health biotechnology.

Who can apply:
Project shall have at least one Company from India and one from France each as joint applicant. A registered Company from India along with the registered company from France or vis-à-vis shall be the Joint Applicant(s) (1+1 model). Other companies may also participate as partners.

How to apply:
Details of the application submission process, eligibility conditions and other information are available on websites of TDB: www.tdb.gov.in and CEFIPRA: www.cefipra.org

Interested applicants can submit the full proposal through email to: targetedprogramme@cefipra.org; with a copy to: tdbbpifrance@gmail.com and wa.kihanguila@bpifrance.fr, Bpifrance latest by 31st October, 2016 (extended upto 31st January, 2017).

For more information, please contact:
1. Mrs. A. Sathidevi of CEFIPRA - sathidevi@cefipra.org
2. Dr. Preeti Sahai of TDB - preeti.sahai@gmail.com
3. Ms. Whitley Kihanguila of Bpifrance - wa.kihanguila@bpifrance.fr

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<th><strong>Aeronautics</strong></th>
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<tr>
<td>1. Aeronautics Equipment Units</td>
<td>1. Automobile Manufacturing</td>
<td>1. Non-Invasive Tools &amp; Devices including Imaging Techniques for Neurological, Cardiology and Oncology Investigations</td>
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<td>• Design &amp; Production for Civil &amp; Military Applications</td>
<td>2. Automobile Spare Parts Manufacturing</td>
<td>2. Preventive Measures, Vaccines, Immunotherapies &amp; Other alternative strategies in the areas of Non-Communicable Diseases</td>
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<td>• Mechanical, Hydraulic, Electronic &amp; Electrical Equipments</td>
<td>3. Electrical, Electronic and IT Equipments</td>
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<td>• Optronics, Avionics &amp; Stealth features</td>
<td>4. Mobility &amp; IoT Integration Technologies</td>
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<td>2. Airframe Manufacturing Units</td>
<td>5. Fuel efficiency/ other Green Technologies</td>
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<td>3. Aircraft Engine Manufacturing Units</td>
<td>6. Electric Motors</td>
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<td>4. Logistics &amp; Fleet Management Solutions</td>
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Indo-French Centre for the Promotion of Advanced Research (CEFIPRA) is a model for international collaborative research in advanced areas of Science & Technology. The Centre was established in 1987 being supported by Department of Science & Technology, Government of India and the Ministry of Foreign Affairs and International Development, Government of France. CEFIPRA is actively involved in supporting Indo-French Science, Technology & Innovation system through various activities. Scientific Collaborative Research Programme focuses on Academia-to-Academia Collaborations between Indian and French Academic Collaborators in various domains. Industry Academia Research & Development Programme emphasizes to develop the linkage between Industry and Academia from France and India. Dedicated mobility support programmes of CEFIPRA provide exposure to young researchers of the working, social and cultural environment of the partnering country. Targeted Programmes of CEFIPRA provide platform for Indian and French National Funding Agencies to implement programmes for specific areas. Innovation programmes through PPP mode, are the programmes where Industries join hands with CEFIPRA as a funding partner for supporting R & D in defined priority areas.

For further information please contact:

**Director**
Indo-French Centre for the Promotion of Advanced Research
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