



स्पीड पोस्ट
SPEED POST

भारतीय राष्ट्रीय विज्ञान अकादमी
बहादुर शाह जफर मार्ग, नई दिल्ली-110 002
INDIAN NATIONAL SCIENCE ACADEMY
Bahadur Shah Zafar Marg, New Delhi-110 002

एस.पी. मिश्र
उप कार्यकारी निदेशक-1
S. P. MISHRA
Deputy Executive Director-I

No. IA/INDO-AUST/F-13/2017 / 1881
9 January 2017

10 JAN 2017

Dr Kusum Kumar Bania
Assistant Professor
Department of Chemical Sciences,
Tezpur University, Napaam
Tezpur-784028
Assam
kusum@tezu.ernet.in

Sub: Indo-Australia Early & Mid-Career Researchers Fellowship Programme 2016-17

Dear Dr. Bania,

The Indian National Science Academy (INSA) New Delhi is pleased to award you the **Indo-Australia Early & Mid-Career Researchers Fellowship Programme 2016-2017** for conducting advance research on the project titled "**Zeolite-Y Encapsulated Chiral Catalyst for Asymmetric Synthesis**" for a duration of **7 months at the RMIT University Australia**.

The Academy will provide funds for your international air travel, fellowship amount, contingency amount and fund for travel within the host country as per the guidelines governing the fellowship programme (**Guidelines-Annexure-I is enclosed**).

Early & Mid-Career Researchers Fellowship:

Sl. No.	Details	Amount
1	Fellowship amount including accommodation charges in Australia (as per actual)	USD 3000/- per month
2	International Air fare by economy class (Air India) including domestic and airport transportation (as per actual)	Rs. 1,00,000/-
3	Visa charges, medical insurance and contingency	Rs. 25,000/-
4	Grant for attending workshop/conference in Australia	USD 1200/-

The Fellowship should be commenced between January 2017 and June 2017 and must be completed by 31 March 2018 and no extension is possible.

The advance payment for your visit will be released to your institute and the balance will be settled after completion of fellowship and return to India on the receipt of the detailed report, statement of expenditure and other required documents as per INSA formats duly forwarded by the Head of your Institute/University. **Kindly provide Institute Bank details for release of money.**


Continue....2/-

टेलीफोन/Tel. : 91-11-23221931 - 23221950 (ई.पी.ए.बी.एक्स./EPABX)
 फैक्स/Fax : 91-11-23231095, 23235648 ई-मेल/E-mail : dedsc@insa.nic.in
 वेबसाइट/Website : www.insaindia.res.in

Wednesday, 20 December 2017

Distinguished Professor Suresh K. Bhargava
PhD (Exon), DSc, FRACI, FRSC, FTSE, FNAE, FAPAS, FNASI, KIA Laureate
Deputy Pro Vice-Chancellor (International),
Director Centre for Advanced Materials & Industrial Chemistry.

College of Science, Engineering and Health
GPO Box 2476
Melbourne VIC 3001
Australia
Tel. + 61 3 9925 2330
www.rmit.edu.au

Re: Report from RMIT University for Dr Kusum Kumar Bania

1. Name of Professor and Address of the Australian Host Institute:

Distinguished Professor Suresh K. Bhargava
Deputy Pro Vice-Chancellor (International), Centre for Advanced Materials and Industrial Chemistry,
College of Science, Engineering and Health
RMIT University
GPO Box 2476, Melbourne, VIC 3001, Australia

2. Area of Research: Catalysis, Organometallics, Waste Management and Material Science

3. Duration: From 20-06-2017 to 20-12-2017

4. Brief highlights of achievements (techniques learnt/research work carried out/ papers published/ prepared):

During his six months stay at RMIT University, Dr. Kusum Kumar Bania has received training on various analytical tools and instruments like SEM, TEM, GC-MS, FTIR, Surface area analyser etc. He synthesized different heterogeneous supports for various catalytic reactions. He has mainly synthesized chiral Schiff base complexes supported on zeolite-Y and Pd-CuO nano-conjugates in zeolite-Y. Apart from this he also synthesized some gold-palladium bimetallic clusters on Mg-Al hydrotalcite for the oxidative coupling of 2-naphthol. The outcome of one of the collaborative works has already been published in *ACS Applied Materials & Interfaces* **2017**, *9*, 35453-35462. Two more research papers have been communicated for publication and they are under review. The remaining work will be completed in upcoming periods through a constructive collaborative work.

5. Has the fellow visited other labs/ institutes/ attended conferences in host country? If yes, benefits derived:

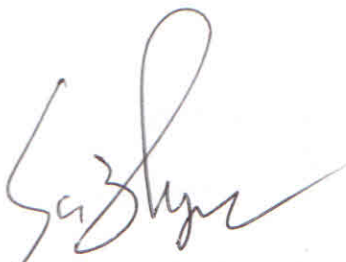
Dr. Kusum Kumar Bania has visited the University of Melbourne and attended the ACS Symposium organised by American Chemical Society. He also attended the RACI Centenary Congress (2017) held in Melbourne. He has benefited by attending scientific lectures on different topics of chemistry and chemical technology and meeting members of the Australian scientific community during this conference. By attending those symposiums and conference he has gathered knowledge in writing scientific papers and how to promote chemistry and chemical technology.

6. Has the fellow participated in other activities? Please specify:

Dr. Bania actively participated in all the Scientific Curriculum activities organised in the Centre for Advanced Materials and Industrial Chemistry, School of Science, RMIT University. He also participated and shared his experience and research work at the Centre for Advanced Materials and Industrial Chemistry (CAMIC) Annual Research Day on 14th December, 2017.

7. Any other comments you may like to make:

Dr. Bania is hard working, motivated and sincere, and has maximised the value of his stay at RMIT through fully applying himself to his work. This has resulted in him conducting research of the highest quality, whilst publishing in leading international journals. I would like to add my thanks to INSA for supporting this outstanding scheme, and I look forward to maintaining my highly productive collaboration with Dr. Bania into the future.



Suresh

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