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Agartala based chemistry professor's invented methodology and formulae converted into software in USA

By Our Correspondent



Agartala, Sep 08, 2015 : Infosys co-founder N.R.Narayanamurthy had bemoaned a short while back the lack of original scientific inventions by Indians over the past six decades. But the pioneer of the software sector in India might have felt proud of this chemistry professor and researcher in Tripura. Dr Arijit Das , Assistant professor of inorganic chemistry in Govt. Ramthakur college , has already invented sixteen new methodologies and 36 formulae in his field of chemical education to facilitate easier study and comprehension by students and researchers from the undergraduate level up to the post-graduate level. His crowning achievement came on August 24 this year as Dr. Edel Garcia, a multidisciplinary scientist and administrator-owner of Minerazzi Project, USA (www.minerazzi.com) at the now-defunct Microsoft Innovation Centre, launched a software designated as 'Hydrocarbon Parser' based on Dr Das's 4 of 16 methodologies and 14 of 36 formulae.

This software is easily accessible online in the tools section of Minerazzi at <http://www.minerazzi.com/tools/hydrocarbons/parser.php>.

"I have been personally informed in a mail by Dr. Edel Garcia that the software or tool based on my methodologies and formulae 'validate the chemical formulae , compute numbers and types of chemical bond, degrees of unsaturation (DoU) ,discriminate between functional isomers and predict normal boiling point temperatures" said Dr Das. Having received the communication from Dr Edel Garcia , Dr Das said that by accessing the software the students at all levels of chemistry and researchers can immensely reduce their burden of work entailed by extensive reading and calculations as they will have ready solutions to problems in it.

Dr Edel Garcia is a giant in the field of chemistry , settled in Bayamon , puertorico ,USA and a visiting professor of top universities in his country. In his letter of appreciation to Dr Arijit Das dated August 23 Dr Garcia said " I have researched several methodologies for chemical solutions and found that your methodologies are the best of the bests for what I am trying to achieve : provide a user-friendly hydrocarbon parser that anyone (teachers, students and researchers) can use for free at any time . The Parser is a lightweight program written in PHP and does not require a data-base, only user input". This is perhaps the ultimate recognition. Apart from this , Arijit Das's methodologies and formulae have already been indexed in the 'Chemwiki' (chemwiki.ucdavis.edu), the digital library in the university of California, Davis, by renowned Professor of Chemistry professor Delmar Larsen, founder and director of 'Chemwiki', supported by the national science foundation (NSF), USA which funds 24% of scientific research projects conducted by American colleges and universities.

But the process of Dr Das's inventions had commenced much earlier in 2011 when he was the head of the department of chemistry in Dharmanagar college of north Tripura. 'I do not know how it all happened ; I had long been reflecting on how to provide students with easier methods of study of the subject ; one evening while I was tiredly dozing in my chair the first methodology and formulae occurred to me and I jotted it down and that is how between 2011 and 2014 all sixteen methodologies and 36 formulae got stuck in the grey cell of my brain-thanks possibly to blessings of Thakur Ramkrishna' said a pristinely simple and unassuming Arijit who has been a dedicated follower of the Ramkrishna order.

Recognition came fast and overwhelmingly as the NASA-sponsored 'International Organisation of Scientific Research Journal of Applied Chemistry' (SRJAC) printed all his methodologies and formulae. Back home the Delhi-based journal 'Chemistry Today' had printed his methodologies and formulae upon due verification in 2011. However, recently the pro-vice chancellor of Calcutta university Dr Dhrubajyoti Chattopadhyaya had released the Indian Chemical Society (ICS) journal (Volume-3, No-1, Pages-1-28) containing all of Dr Arijit Das's inventions on August 31 in a function at Meghnad Saha Bhawan in Calcutta's APC Road. Besides, the 'World Journal of Chemical Education' , USA, volume-2 (2014-2015) had also printed Dr Das's inventions. As a mark of recognition of what he has achieved the high-profile and prestigious American Chemical Society (ACS) had offered membership to Dr Das in 2013 .

'My greatest satisfaction is that what I have done will help students and researchers in studying and easily comprehending chemistry ; now I intend to work on the aspects of chemistry that is directly connected to environment and climate ; if I can achieve what I wish to, it will be a signal contribution to fighting climate change and environmental degradation' said Dr Arijit Das.

The External Links of Dr Arijit Das :-

External Links:

Link-ChemWiki, University of California,USA,Digital Library:

1.Predicting the Bond-Order of Diatomic Species

http://chemwiki.ucdavis.edu/Inorganic_Chemistry/Predicting_the_Bond

Order_of_Diatomic_Species

2.Evaluating Spin Multiplicity

http://chemwiki.ucdavis.edu/Inorganic_Chemistry/Evaluating_Spin_Multiplicity

3.Prediction of Hybridization State of Simple Molecules

http://chemwiki.ucdavis.edu/Inorganic_Chemistry/Prediction_of_Hybridization_State_of_Simple_Molecules

4.Calculating of p-bonds, s-bonds, single and double bonds in Straight Chain and Cycloalkene System

http://chemwiki.ucdavis.edu/Organic_Chemistry/Calculating_of_p-bonds%2C_s-bonds%2C_single_and_double_bonds_in_Straight_Chain_and_Cycloalkene_System

5.Predicting the Hybridization of Heterocyclic Compounds

http://chemwiki.ucdavis.edu/Organic_Chemistry/Predicting_the_Hybridization_of_Heterocyclic_Compounds

6. Identifying Aromatic and Anti-Aromatic Compounds

http://chemwiki.ucdavis.edu/Organic_Chemistry/Identifying_Aromatic_and_Anti-Aromatic_Compounds

Link-ACS (American Chemical Society), USA:

1.<https://communities.acs.org/docs/DOC-46667>

2.<https://communities.acs.org/docs/DOC-45853>

Link-Wikipedia,USA:

<http://wpedia.goo.ne.jp/enwiki/User%3APrasantadastrup%2Fsandbox>

Link-'Hydrocarbons Parser' Software, USA: <http://www.minerazzi.com/tools/hydrocarbons/parser.php>.

Link - IR Thoughts,USA (Thoughts on Information Retrieval, Data Mining, and Search Engines)

<https://irthoughts.wordpress.com/2015/08/18/building-a-hydrocarbons-parser/>



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