



## **Journal of Applicable Chemistry**

2015, 4 (5): 1561-1573

(International Peer Reviewed Journal)



### **Seminars, Conferences & Others**

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#### ➤ **9th Annual Convention & International Conference at KL University on 14-16 December, 2015**

The arrangements for 9th Annual Convention of Association of Biotechnology and Pharmacy & International Conference are going on well, which is being organized at KL University on 14-16 December, 2015.

#### **CONTACT:**

Prof.K.R.S.Sambasiva Rao, PhD, DSc  
General Secretary, Association of Biotechnology and Pharmacy  
Editor, Current Trends in Biotechnology and Pharmacy ([www.abap.co.in](http://www.abap.co.in))  
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#### ➤ **CCRS Third Annual International Conference & Industry-CCRS Congress (ICC) 2015 , on 16 & 17th December, 2015**

Coastal Chemical Research Society ,Visakhapatnam, Andhra Pradesh, India & Dr. B.R. Ambedkar University, Srikakulam, Andhra Pradesh are Jointly organizing Coastal Chemical Research Society (CCRS) THIRD ANNUAL INTERNATIONAL CONFERENCE & Industry-CCRS Congress (ICC) 2015 , on 16 & 17<sup>th</sup> December, 2015 at Conference Hall, Dr. B.R. Ambedkar University, Srikakulam, INDIA.

#### **CONTACT:**

Prof. K.V.V.V.Satyanarayana  
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Webpage: [www.ccrs.org.in](http://www.ccrs.org.in)

➤ **34th National Conference of Indian Council of Chemists on 26<sup>th</sup>-28<sup>th</sup> December 2015 at Surat**

34th National Conference of Indian Council of Chemists going to be held at Department of Chemistry, UKA Tarsadia University, SURAT, on 26<sup>th</sup> -28<sup>th</sup> December, 2015.

**CONTACT:**

Prof. R.K.S. Dhakarey  
Secretary, ICC  
Dean Research  
University Department of Chemistry  
Dr.B.R.Ambedkar University, Agra  
Website: [www.chemicc.com](http://www.chemicc.com)  
E-mail: [iccsurat15@gmail.com](mailto:iccsurat15@gmail.com)

➤ **Seminar on Chromatographic Techniques in Pharma (API) on 7<sup>th</sup> October 2015**

CSI is very pleased to conduct yet another important event, "Seminar on Chromatographic Techniques in Pharma (API)" on Wednesday, October 07, 2015 at the SIES Institute of Chromatography and Spectroscopy.

**CONTACT:**

Dr.G.Ramakrishnan , Ph.D.  
President, Chromatographic Society of India (CSI)  
Mobile +91 98200 93260; E Mail: [ramakrishnan.g@chromsocindia.org](mailto:ramakrishnan.g@chromsocindia.org)  
Website: [www.chromsocindia.org](http://www.chromsocindia.org)

➤ **2nd International Conference on Control, Instrumentation, Energy and Communication (CIEC16) at Kolkata on 28<sup>th</sup>-30<sup>th</sup> January 2016**

2<sup>nd</sup> International Conference on Control, Instrumentation, Energy and Communication (CIEC 16) to be held during 28<sup>th</sup> to 30<sup>th</sup> January, 2016 at Kolkata, West Bengal, India.

**CONTACT:**

Dr. Sumana Chowdhuri, +91-9433123854  
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even time tested long nourished/cherished laws of sciences. The discovery of boson, darkEnergy-darkMatter research, chemical biology, preliminary results of SDO, peta scale computations, self-adaptive automatic model development without intervention of human expert, reactions at zero gravity are through a new evolved eye of science endeavors. The scientists rewrite now physico-chemical-biological laws through this third eye (hyper intelligence sparked from state-of-knowledge) for the posterity.

Alfred Nobel was born in Stockholm, Sweden in 1895. Nobel was a chemist, engineer and spent most of the career in researching with explosives mainly nitroglycerine. He was a fluent speaker of five languages at the age of 17 and got 355 patents worldwide in his life time including 29 Swedish and 58 English ones. He established Nobel prizes in 1885 for novel contributions in physics, chemistry, medicine, literature and peace with a noble cause of benefit for the mankind. The Nobel prize in Economics added in 1969.

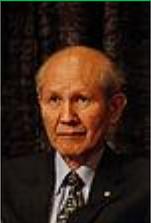
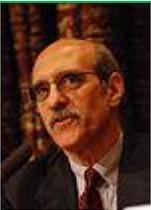
The first Nobel Prize in chemistry was awarded in 1901 to Jacobus Henricus van 't Hoff for his laws of chemical dynamics and osmotic pressure in solutions. Here, table1 briefly depicts the noble prize contributions during the period 2000-2014 in chemistry along with major disciplines. Table 2 is incorporates the names of Nobel Laureates, date of birth and the country.

Table 1: Nobel prizes in chemistry				
Year of award	Contribution	Disciplines		
2014	Super-resolved fluorescence Microscopy	Physical chemistry	Florescence Spectroscopy	Microscopy
2013	Multiscale models for complex Chemical systems	Biochemistry	Models_multiscale	Chemical systems
2012	Studies of G-protein-coupled receptors	Proteins	Biology	Receptors
2011	Discovery of quasicrystals	Physical chemistry	Crystallography	
2010	Palladium-catalyzed cross couplings in Organic synthesis	Organic synthesis	Catalysis	Cross couplings

2009	Structure and function of ribosome	Biochemistry	Ribosome	
2008	The discovery and development of the green fluorescent protein	Biochemistry Spectroscopy	Macromolecules	Fluorescent protein
				
			2008 Green fluorescent protein	
2007	Chemical processes on solid surfaces	Surface chemistry	Solid surfaces	
2006	Molecular basis of eukaryotic transcription	Structural biochemistry	Molecular	Eukaryotic transcription
2005	Metathesis in organic synthesis	Organic synthesis		Metathesis
2004	Ubiquitin-mediated protein degradation	Proteins	Protein degradation	
2003	Discovery of water channels	Biochemistry	Water channels	Cell membranes
2003	Structural and mechanistic studies of ion channels	Biochemistry	Ion channels	Cell membranes
2002	Soft desorption ionization methods for mass spectrometric analyses of biological macromolecules	Physico-chemical methodology	Biological	Macromolecules
	Development of nuclear magnetic resonance spectroscopy for determining three-dimensional structure of biological Macromolecules in solution	Macromolecules	Biological	MRI-3D-structure
2001	Chiral catalysed hydrogenation reactions	Industrial chemistry	Catalysis	Chiral catalysis
2000	Discovery and development of Conductive polymers	Physical chemistry	Polymers	Conductive

Table2: Biographic sketch of Nobel Laureates in chemistry (2000-1014)				
Year	Nobel Laureate	Country	Photo	DOB
2014	Eric Betzig	US		1960-01-13
2014	Stefan W. Hell	Germany		1962-12-23
2014	William E. Moerner	US		1953-06-24
2013	Martin Karplus	US		1930-03-15
2013	Michael Levitt	US		1947-05-09
2013	Arieh Warshel	US		1940-11-20
2012	Robert Lefkowitz	US		1943-04-15

2012	Brian Kobilka	US		1955-05-30
2011	Daniel Shechtman	Israel		1941-01-24
2010	Ei-ichi Negishi	Japan		1935-07-14
2010	Akira Suzuki	Japan		1930-09-12
2010	Richard Heck	US		1931-08-15
2009	Venkatraman Ramakrishnan	UK,India, US		1952
2009	Thomas A. Steitz	United States		1940-08-23

2009	Ada E. Yonath	Isreal		1939-06-22
2008	Shimomura Osamu	Japan		1928-08-27
2008	Martin Chalfie	US		1947-01-15
2008	Roger Y. Tsien	US		1952-02-01
2007	Gerhard Ertl	Germany		1936-10-10
2006	Roger D. Kornberg	US		1947-04-24
2005	Yves Chauvin	France		1930-10-10
2005	Robert H. Grubbs	US		1942-02-27

2005	Richard R. Schrock	US		1945-01-04
2004	Aaron Ciechanover	Israel		1947-10-01
2004	Avaram Hershko	Israel		1937-12-31
2004	Irwin Rose	US		1926-07-16
2003	Peter Agre	US		1949-01-30
2003	Roderick MacKinnon	US		1956-02-19
2002	John Bennett Fenn	US		1917-06-15
2002	Koichi Tanaka	Japan		1959-08-03
2002	Kurt Wüthrich	Switzerland		1938-10-04

2001	William S. Knowles	US		1917-06-01
2001	Ryoji Noyori	Japan		1938-09-03
2001	Karl Barry Sharpless	US		1941-04-28
2000	Alan J. Heeger	US		1936-01-22
2000	Alan G. MacDiarmid	US		1927-04-14
2000	Hideki Shirakawa	Japan		1936-08-20
<b>I (eye, instrument) see(s) evolution</b>				



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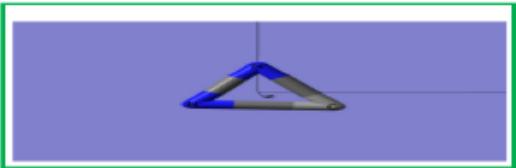
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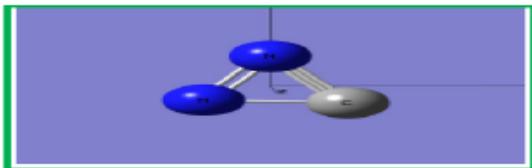


## ADVANCED APPLICATION ANNOUNCEMENT

**New Chemistry News**  
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**New News of Chem (NNC)**



**ChemNewsNew (CNN)**

### Editors' choice

<b>Chemical biology</b>	
Scoping biology-inspired chemical engineering	<i>Chinese Journal of Chemical Engineering,</i> (online 15 July 2015)
Xiao Dong Chen	
Chemical chronobiology: Toward drugs manipulating time	FEBS Letters, 589, (14) 2015,1530-1538
Thomas Wallach, Achim Kramer	
Towards a systematic analysis of human short-chain dehydrogenases/reductases (SDR): Ligand identification and structure-activity relationships	<i>Chemico-Biological Interactions,</i> 234, 2015, 114-125
Chitra Bhatia, Stephanie Oerum, James Bray, Kathryn L. Kavanagh, Naeem Shafqat, Wyatt Yue, Udo Oppermann	
Helix mimetics: Recent developments	<i>Progress in Biophysics and Molecular Biology,</i> Corrected Proof, (3 June 2015)
Andrew J. Wilson	
How chemistry supports cell biology: the chemical toolbox at your service	<i>Trends in Cell Biology</i> 24(12) (2014)751-760
Ruud H. Wijdeven, Jacques Neeffjes, Huib Ovaas	
Inferring reaction systems from ordinary differential equations	<i>Theoretical Computer Science,</i> (In Press)
François Fages, Steven Gay, Sylvain Soliman	

The use of small molecules in somatic-cell reprogramming	<i>Trends in Cell Biology,</i> 24, 3, March 2014, 179-187
Alexander J. Federation, James E. Bradner, Alexander Meissner	
Next generation 1536-well oligonucleotide synthesizer with on-the-fly dispense	<i>Journal of Biotechnology,</i> 171, 10 (2014), 76-81
Michael Jensen, Lester Roberts, Andrew Johnson, Marilyn Fukushima, Ronald Davis	
The systems perspective at the crossroads between chemistry and biology	<i>Journal of Theoretical Biology,</i> 381(21) (2015), 11-22
Andrés de la Escosura, Carlos Briones, Kepa Ruiz-Mirazo	
Dual synthetic pathway for 3-hydroxypropionic acid production in engineered <i>Escherichia coli</i>	<i>Journal of Bioscience and Bioengineering,</i> 120 (2) (2015)199-204
Hiroshi Honjo, Keigo Tsuruno, Tsuneyuki Tatsuke, Masaki Sato, Taizo Hanai Abstract	
Modular optimization of multi-gene pathways for fumarate production	<i>Metabolic Engineering,</i> (Uncorrected Proof, online 1 August 2015)
Xiulai Chen, Pan Zhu, Liming Liu	
Single cells get together: High-resolution approaches to study the dynamics of early mouse development	<i>Seminars in Cell &amp; Developmental Biology,</i> Corrected Proof (online 13 July 2015)
Néstor Saiz, Berenika Plusa, Anna-Katerina Hadjantonakis	
Signaling and stress: The redox landscape in NOS2 biology (Review)	<i>Free Radical Biology and Medicine,</i> Accepted Manuscript (online 24 June 2015)
Douglas D. Thomas, Julie L. Heinecke, Lisa A. Ridnour, Robert Cheng, Aparna H. Kesarwala, Christopher H. Switzer, Daniel W. McVicar, David D. Roberts, Sharon Glynn, Jon M. Fukuto, David A. Wink, Katrina M. Miranda	
Dynamical model for thyroid	<i>Communications in Nonlinear Science and Numerical Simulation,</i> 22(1-3) (2015) 297-313
Gholam Reza Rokni Lamooki, Amir H. Shirazi, Ali R. Mani	
After 1952: The later development of Alan Turing's ideas on the mathematics of pattern formation	<i>Historia Mathematica</i> Corrected Proof (online 15 May 2015)
Jonathan H.P. Dawes	
The chemical basis of morphogenesis	<i>Phil. Trans. R. Soc. Lond. B</i> 237, 37-72 (1952)
Alan Turing	
Biochemical Space: A Framework for Systemic Annotation of Biological Models	<i>Electronic Notes in Theoretical Computer Science,</i> 306(2014)31-44
M. Klement, T. Děd, D. Šafránek, J. Červený, S. Müller, R. Steuer	
CBK searching (chemistry-biology-keyword): Performing cross-discipline collaborative searches	<i>World Patent Information,</i> 41(2015)11-14
Kimberly Miller, Seth Mendelson	

Chemical analysis: Double core-hole spectroscopy with free-electron lasers Free-electron lasers with their femtosecond pulse duration- high pulse energy - tunable photon energy in a regime from XUV to hard-X-ray	<i>Journal of Electron Spectroscopy and Related Phenomena,</i> <i>Corrected Proof (online 16 June 2015)</i>
N. Berrah, L. Fang	
Using <i>Ambystoma mexicanum</i> (Mexican axolotl) embryos, chemical genetics, and microarray analysis to identify signaling pathways associated with tregeneration Original Research Article	<i>Comparative Biochemistry and Physiology Part C: Toxicology &amp; Pharmacology,</i> <i>Corrected Proof (online 16 June 2015)</i>
Larissa V. Ponomareva, Antony Athipozhy, Jon S. Thorson, S. Randal Voss	
A Combined NMR and Computational Approach to Investigate Peptide Binding to a Designed Armadillo Repeat Protein	<i>Journal of Molecular Biology,</i> <i>427(10) (2015) 1916-1933</i>
Christina Ewald, Martin T. Christen, Randall P. Watson, Maja Mihajlovic, Ting Zhou, Annemarie Honegger, Andreas Plückthun, Amedeo Caflisch, Oliver Zerbe	
Modelling from the experimental developmental biologists viewpoint (Review) Reaction-Diffusion as the archetype of a model in developmental biology	<i>Seminars in Cell &amp; Developmental Biology,</i> <i>35(2014) 58-65</i>
Andrew D. Economou, Jeremy B.A. Green	
Probing membrane protein structure using water polarization transfer solid-state NMR water-protein; water-membrane; water-carbohydrate interactions; Solid-state- heteronuclear- NMR	<i>Journal of Magnetic Resonance,</i> <i>(247)2014(118-127)</i>
Jonathan K. Williams, Mei Hong	
Prediction of drug target groups based on chemical-chemical similarities and chemical-chemical/protein connections	<i>Biochimica et Biophysica Acta (BBA) - Proteins and Proteomics,</i> <i>1844(1), Part B, (2014) 207-213</i>
Lei Chen, Jing Lu, Xiaomin Luo, Kai-Yan Feng	
Deadly Gasses as a Source of Life, HIF-Independent Hypoxia Story, and a More Radical SAM Enzyme chemical reactions that might have ruled the prebiotic Earth	<i>Chemistry &amp; Biology,</i> <i>22(5) (2015) 561-562</i>
Synthetic biology expands chemical control of microorganisms (Review) microorganisms' responses to chemical stimuli	<i>Current Opinion in Chemical Biology</i> <i>28(2015)20-28</i>
Tyler J Ford, Pamela A Silver	

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