## ***ScannedImage-2Prof. (Dr.)VIRENDRA GOSWAMI***

***Ph .D.(IIT),M.S.(USA),M.Sc; PDF(USA),LL.B***

***“Visiting Scientist; UNIDO,ICTP,ITALY,WMO&NCAR(USA)***

***Expert Panelist , NOAA (NASA),UNV,ICAO &AIU Rosters***

***Former Vice Chancellor: Sangam University &***

***Sunrise University. Ex. Wing Commander (IAF)***

***Prof. Emeritus & Member :AGU (American Geophysical Union),AMS&IMS.***

***Founder President ‘Environment & Peace Foundation(EPF)****’*

*Editor in Chief:* *Journal of Advanced Research in Alternative Energy, Environment and Ecology****. Reviewer of US-Journal of Shipping and Ocean Engineering &Referee: Int. Natl. Journal of Climate Change: Impact & Responses. Hon. Director: ICEMI &Advocate: Supreme Court of India.***

*F-82,Sector-41,NOIDA-201303,INDIA*

*Vk\_goswami1@rediffmail.com/+919818731911*

***BRIEF RESUME***

*Dr. V. K. Goswami, Ph.D. Indian Institute of Technology(IIT), Kharagpur, MS from the University of Wisconsin, USA. Post Doctorate Fellow(PDF) at the University of Illinois, Chicago, USA. ‘Visiting Scientist’ to United Nations Industrial Development Organization (UNIDO), ICTP, Italy. Expert Panelist International Civil Aviation Organization(ICAO), Canada and United Nations as well Wing Commander in the Indian Air Force(IAF).*

*Dr. Virendra Goswami worked at Space Science Engineering Centre, NASA NOAA (National Oceanic Atmospheric Administration) at University of Wisconsin, USA. Also, Special Invitee by the World Meteorological Organization(WMO) of United Nations, Geneva in 2001 . Lately, a Special Invitee in ‘Next Practices Workshop (NPW)’: Conducting Field Operations in a Changing World, April 21-23, 2015 ,New Orleans, Louisiana, USA under the aegis of National Center of Atmospheric Research (NCAR).*

***Invited Speaker to the Coupled Data Assimilation Workshop, sponsored by Météo-France, the World Meteorological Organization, the European Union, MAPP Program and US CLIVAR, Toulouse, France October 2016 , IV Family Child Conference ,Nigeria in Nov’16, 6thICHVHE,IITKanpur ,Feb’17 & got awarded for Human Value Education at RVIT by His Excellency Ram Nayak, Governor, U.P on 05 Jun’17****.****Invited Speaker at ‘Globlistcs-2017,Lomonosov Moscow State University,Sep’17&Univ. of California,Berkley in Apr'18.***

*Presented Papers in the field of Chemical Technology, Atmospheric Sciences, Space Sciences, Satellite Application, Control of Global Warming & Quality Higher Education at International and National Conferences held in India, USA,UK Latin America, South Africa, Canada and Europe(more than 29 countries of all the Continents). More than 44 years of teaching, research and administrative experience at Home and Abroad.*

*Expert panelist of Association of Indian Universities(AIU), a National level Accreditation body. Founder Vice Chancellor : Sangam University. prior to the assignment of Vice Chancellor: Sunrise University. Associated with SAARC Disaster Management Center (SDMC),Govt. of India .Had been, Director General of Management Institutes.& Director of Engineering Institutes as well as Vice-President Havells India Ltd .*

*I’m Ph .D & M. Tech Examiner at Centre of Energy Studies at IIT Delhi as well as Honorary Director Of Asian Film & Television(AAFT):International Film Television Research Center(IFRTC)& International Chamber of Media & Entertainment Industry(ICMEI) as well as Founder President ‘Environment & Peace Foundation(EPF)’ & Editor in Chief:* *Journal of Advanced Research in Alternative Energy, Environment and Ecology. An Advocate: Supreme Court of India amalgamated with more than 17 years legal experience in Civil & Military Courts (IAF);*

*Chaired Sessions in Int.Natl.Conf.Metering,Brazil-2003, Invitee in* ***Emergency Higher Education Conf. 2005,FEMA,Emmitsburg,MD,USA****.. Besides, headed various delegations at National & International Levels & Chaired session SSC-2006(Int. Natl .Conf .on Solid State Chemistry),Pardubice, Czech Republic. Had been to Univ. of Limerick ,Ireland in 2008.Presented Research Paper on Control of Global Warming at ESF Conference,6-11 Jun’09, Innsbruck, Austria& France 2010. I was invited by Cambridge University, UK to present research paper on Control of Global Warming during 13-17Dec'10& again by Angila Ruskin Univ. Cambridge in Apr'17. I was invited in the Int. Natl. Conf. on Higher Education ;held at Johannesburg(SouthAfrica,during3-4 May’13 .*

*I was Guest Speaker at ASSOCHAM-BIOTECHNOLOGY-13;held on 30 jul'13 in New Delhi. Chaired Sessions at’AISSQ-14 Science & Spirituality at IITBHU, Panelist at 3rd ICHVHE-14 at PTU Jalandhar ,Transforming India Conclave(TIC-14), Key Note Speaker at CEED:ECONS-2014 & Natl. Conf. on Innovation, Barha Univ. Shimla on 30May’14 & an Invitee in Cambridge English Summit-1 on 18 Sep’14.*

*Also ,Special Guest Speaker at SAARC :INDIA Water Week, New Delhi on 16 Jan’2015 GWP-South Asia ,****Special Invitee at QS in conversation - India 02-04 Feb’15 & 08 Jul’15.****State Guest Speaker in the International Seminar on 'Value Based Life' April 17-19, 2015, Bhopal, Government of M.P. India. Chaired a Session in the 4th National Conf. on Climate Change held in NewDelhi ,on 18 Jun’15 under the aegis of ASSOCHAM & Dept. of Sc.& Technology(DST),Govt. of India..Invited Speaker at’AISSQ-15 Science & Spirituality at IIT Kharagpur01Nov’15 .*

***Guest at Global Freedom Network(Australia)’s Conference: ’Joint Declaration Against Modern Slavery’ held on 03 Dec’15*** *at India Habitat Center, NewDelhi.&* ***Special invitee at Observer Research Foundation(ORF) Kalpana Chawla Annual Space Dialogue, US-India Business Council(USIBC) 24-26 Feb’16 at India Habitat Center, NewDelhi, India as well as 'Educon-Sakal', NewDelhi on 10 Mar'2016. Invited as State Guest Speaker in the International Seminar on 'Simhastha' May 12-14, 2016, Ujjain, Government of M.P. India.***

## **Curriculum Vitae**

Family name**:    Dr .GOSWAMI**

First name(s**):    VIRENDRA**

Address:    **F-82,Sector-41,NOIDA**  City:    **NOIDA**  Postal code:  201303   , Country:    **India .** Mobile : +919810818247/ Home ; +91-120-4340613  
 Email**:    *vk\_goswami1@rediffmail.com***  
Marital status:    Married  ,Gender: Male    
  
Date of birth:  08 August 1946; Place of birth: Lahore(now in Pak) , Country of birth: India ,  Nationality at birth:  Indian  
  
**HIGHER EDUCATION**Original title**:    Ph .D**    Obtained in:    02/1975    Type:    PhD/Doctorate level  
Field of study:    Catalysis, Process Development, Spectroscopy, Adsorption & High Pressure Technology.  
Major subjects:    Chemical Technology  
 From to:    12/1967 - 12/1970  
School/University:    ***Indian Institute of Technology (IIT), Kharagpur, India***

Original title**:    Post-Doctoral**    Obtained in:    09/1984    Type:    Post-doctorate level  
Field of study:    Chemical Technology  
Major subjects:    NMR, ESR, EPR, Spectroscopy, Chromatography  
 From to:    04/1984 - 09/1984  
School/University***:    University of Illinois, Chicago,IL, United States of America***

Original title**:    M. S**    Obtained in:    12/1984    Type:    Post-graduate level  
Field of study:    Atmospheric Sciences, **Computers** , Remote Sensing  
Major subjects:    Satellites, Space Sciences ,Meteorology, Computers  
 From to:    09/1982 - 11/1984  
School/University**:    *University of Wisconsin, Milwaukee/Madison, United States of America***Original title:    **M. Sc.** Obtained in:    07/1967    Type:    Post-graduate level  
Field of study:    Chemical Technology (Chem.), From to:    07/1965 - 06/1967  
School/University: ***Sagar University Sagar, India***

Title:    **B. Sc**   Obtained in:    05/1965  From ***Sagar Univ. Sagar, India***  
Original title:    **LL.B**   Obtained in:    07/1981    
Field of study:    Law, Major subjects:    Taxation ,Labour Law, Mercantile & International Law.  
 From to:    07/1977 - 06/1980 & Having **License of Advocacy from Bar Council of Delhi.**  
School/University:    ***Lucknow University Lucknow, India***

Original title**:  SFC ( M/Phil) :** From to:    01/1986 - 06/1986

**F**ield of study:    Meteorology, Major subjects:    Weather Forecasting  
 School/University:    ***Air Force Admin. College, Coimbatore, India***

**LANGUAGE & COMPUTER SKILLS:**

Speak      Write      Read      Understand    ***English :   Excellent    Excellent    Excellent    Excellent******French  :***  *Slight    Fair    Fair    Slight* ***German :*** *Slight    Fair    Fair    Slight*

**Hindi    : Excellent    Excellent    Excellent    Excellent**  
**Bengali :**   **Excellent** Slight        Slight     **Excellent  
Punjabi : Excellent** Slight        Slight     **Excellent** (mother Tongue)   

**$.ACHIEVMENTS:**

***$.As ‘Visiting Scientist’; visited (31 Countries):***

***USA, UK, Canada, Switzerland, France, Austria ,Singapore, Malaysia, Denmark, Jordan, Germany ; Sweden, Italy, Czech Republic, Poland, Belgium, The Netherland ,Luxemburg, Ireland, Sri Lanka, Bangladesh, South Africa, Hungary, Slovakia, Dubai ,Brazil, Turkey, Bhutan, Nigeria & Russia.***

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| ***$.Membership of Academic Bodies/Professional Bodies/ Associations( Assignments & Achievements)s :-***  ***(a****)* ***'Visiting Scientist’ UNIDO, ICTP, Italy since1990****#*  *(****b) International Civil Aviation Organization (ICAO), Montreal Canada. Expert Panelist, since 1992***  ***(c) UNV (United Nations Volunteer); Expert Panelist, since 1996***  ***(d) Member of Indian Peace Keeping Force (IPKF), Sri Lanka,1987-88***  ***(e) My research paper got nominated for Norbert-Gerbier award :World Meteorological Organization (WMO) 1990 and 1992.***  ***(****f)* ***Twice my research proposal got accepted in NASA (GSFC), USA in 1994 and 1995****.*  ***(g)Special Invitee to National Policy Workshop(NPW),New Orleans, USA 21-24 Apr’15 by NCAR (National Center for Atmospheric Research.***  **(h) *Invited Speaker to the Coupled Data Assimilation Workshop, sponsored by Météo-France, the World Meteorological Organization, the European Union, MAPP Program and US CLIVAR, Toulouse, France October 2016***  ***(i)Invited Speaker ,‘Globlistcs-2017 Lomnosov Moscow State Univ,Sep’17***  ***(j) IV Family Child Conference ,Nigeria in Nov’16.***  *(k) Awarded 'Good Show' in the IAF for professional competence.*  *(l) Member of Indian Chemical Society;. (ICS)*  *(m)Member of American Meteorological Society (AMS)*  *(n) Life Member of Indian Metrological Society;. (IMS)*  *(o) Member of American Geophysical Union (AGU)*  *(p) Member of Computer Society of India (CSI)*  *(q) Member of Indian Society for Technical Education (ISTE).*  *(r) Editor in Chief:* *Journal of Advanced Research in Alternative Energy, Environment and Ecology* ***.*** |

**(s)*Chaired Session"4th National Conference on Climate Change” ASSOCHAM India,Jun’15***

***(t)Guest at Global Freedom Network(Australia)’s Conference: ’Joint Declaration Against Modern Slavery’ held on 03 Dec’15*** *at India Habitat Center, NewDelhi*

***(u)Special invitee at Observer Research Foundation(ORF) Kalpana Chawla Annual Space Dialogue, US-India Business Council(USIBC) 24-26 Feb’16 at India Habitat Center, NewDelhi, India.***

***(v)Reviewer of US-Journal of Shipping and Ocean Engineering.***

***(w) Hon .Director:ICEMI(InterNatl.ChamberofMedia&Entertainment Industries)***

***(x)Advocate: Supreme Court of India & Member of Supreme Court Bar Association.***

***(y) Founder President ‘Environment & Peace Foundation(EPF)****’*

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| ***$Membership of Authorities and Bodies of Universities/Institutions,***  ***( a )Special Invitee*** ***in the meeting of World Meteorological Organization ( WMO )Geneva, Switzerland during Sept 4-6, 2000****.*  *( b)****Ph. D****/****M.Tech External Examiner ,IIT, Delhi & Other Institutes.***  *(****c)******Expert panelist of Association of Indian Universities; (AIU)***  *( d )* ***I have flown more than 500 hours at home and abroad as a Supernumerary Aircrew Research in Atmospheric Sciences.*** |

***$.National Board of Accreditation (NBA):Pre-emptive***

***(i):JECRC, Jaipur, (ii) VallabhBhai Inst of Technology ,Vadodra, (iii) Inst.of Engg. & Tech, Alwar,(iv Inst Of Technol. Bhuwneshwar,***

**$.*Consultancy Projects:* *for Establishment of University\*\*; Engineering#, Management \*, @MCA Institutes & National Board of Accreditation (NBA)$ \*\****

***Univ. Projects:*** *Institute of Engineering & Emerging Technology (IEET), Baddi ;Jan-Feb.08*

*#* ***Engg. Colleges****: (a)Echelon Inst. of Tech.(EIT)Apr-Nov’07 (b) Aravli College of Engineering ,FBD:Aug-Nov’08; \**

***MBA & MCA@ :*** *Greater Noida inst. Of Technology (GNIT) : Apr-Dec.2007;*

@*ISOMES (International School of Media & Entertainment Studies),Feb-Jul’08;*

***$Conference Attended/Organised:***

**(a) Invitee in IX International Conference" Hydrogen Materials Science & Chemistry of Carbon Nanomaterials"Sevastopol,Crimea,UKRAINE,Sep.5-11.2005**

**(b) "*Pre-Payment Lessons Learnt from India"; Presented at International Conference On Metering (MBR-2003),held at Sao-Paulo, BRAZIL during 12-14 August .***

**(c) Attended the Emergency Higher Education Conf.07-09 Jun.2005,Emmitsburg,MD,USA; B1/B2-Multiple EntryVisa.**

**(d *) Had been to Pradubice, Czech as Guest Speaker in SSC-2006(Int. Natl .Conf .on Solid State Chemistry) ,***

***( e) Had been to Univ. of Limerick ,Ireland in 2008 on their invitation.***

***(f) Presented Research Paper on Control of Global Warming at ESF Conference,6-11 Jun’09,Innsbruck, Austria***

***( g ) Presented Research Paper on Control of Global Warming at ECI Conference ,Proquelle, France in June 2010 .***

***(h) Invited by Cambridge University, UK to present research paper during 13-17 Dec'10***

## ***( i) Invited in the Int. Natl. Conf. on Higher Education, held at Johannesburg(SouthAfrica,during3-4 May’13***

**(k) *I was Guest Speaker at ASSOCHAM-AGRI-BIOTECHNOLOGY-13;held on 30 jul'13 in New Delhi.***

***( l)Chaired Sessions at’AISSQ-14 Science & Spirituality at IIBHU***

***(m) Panelist at 3rd ICHVHE at PTU Jalandhar.***

*(n) Invited as* ***Guest of Honour in*** *the ICPE conf. to be held at Univ. of Health Sciences, Lahore,* ***Pakistan during 26-29 Apr’14***

*(o)* ***Invited Speaker at Natl. Conf. on Quality of Education,ENCON.26 Apr’14,New****Delhi*

*(****p****)* ***My research paper has been accepted and I’ve been invited at 5th ICPM ECI Hawaii ,USA 22-25 Jun’14***

# *(e) Panelist at Transforming India Conclave(TIC-14) held on18Dec’14,Newdelhi,*

# *(f) Lately, Special Guest Speaker at SAARC :INDIA Water Week, New Delhi,Jan’2015 GWP-South Asia &*

# *(g) Special Invitee at* *QS in conversation - India 02-04 Feb’15.*

*(h) Grand Jury in Pearson Teaching Award ,India Diatonic Association(IDA),Jan’15*

**PERSONAL SKILLS:**

***Administration,Management,Communication,Consultation,Discussions,Research,Teaching,Driving,Tourism***

***LEGAL SKILLS & EXPERIENCE (17 Years):***

1. ***Advocate: Bar Council of Delhi, India. Enrolment# D/107/2014***

***(ii) Advocate Member :Supreme Court Bar Association of India***

1. ***As an IAF: Prosecutor & Defending Officer in the Military Courts (Court Martial) & Standing Counsel of IAF (Indian Air Force) in Civil-Military Suits.*** *represented the IAF (Indian Air Force)’s cases related to murder, culpable homicide ,rape and the other cases where Civilian (People out of Jurisdiction of Military Law) are involved with Armed Forces Personnel for more than 17 years (08/1981-03/1998).*

1. ***As a Standing Counsel of IAF, I had been a Prosecutor & Defending Officer in the High Courts of Andhra & Karnatka during 1992-1994.***
2. ***Also, had an opportunity to be a in a Murder Case involving NRI (Non Resident Indian) –American at Milwaukee County Court, Wisconsin, USA (1983-84)***
3. ***More than 17 years experience in drafting legal proceedings in form of Court of Inquiry (COI) & Summary of Evidences (SOE) involving Air Crashes, Air Accidents, Civil & criminal cases***
4. ***As an Advocate: Bar Council of Delhi, India. Enrolment# D/107/2014:***

***Specialist in dealing with :****#Taxation , Labour Law, Mercantile Law, Constitutional Laws,# Public Interest Litigation (PLI), Rape, Criminal Laws*

*# International Law, Environmental Law, Cyber Laws,# Medico-Legal Cases, Education-Legal Cases, Civil-Military Cases****$.Experience (Teaching cum Research) :-***

***(a). Experience at the University level:***

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| ***University\**** | ***Post*** | ***From*** | ***To*** | ***Total*** *(in years*  *and months)* |
| *IIT Kharagpur* | *Lecturer & Res.Scholar* | *1967* | *1970* | *3 years* |
| *Univ. of Illinois, Chicago, USA* | *PostDoctoral Fellow* | *Apr’1984* | *Sep’84* | *6 months* |
| *Univ.of Wisconsin, USA* | *Lecturer & Research Asstt.* | *Sep’1982* | *Nov’1984* | *2 years&3 months* |
| *SpaceScience& Engg.Center(NOAA,NASA)Univ.Of Wisconsin,USA* | *Research Fellow* | *1982* | *1984* | *2 yrs.* |
| *UNIDO,ICTP,Italy& ICAO,Canada* | *‘Visiting Scientist’& Expert Panelist* | *Jun’1990* | *Present* | *23 yrs* |
| *USA,UK,Europe,SouthAfrica, Russia&Brazil (31Countries)Universities.* | *‘Visiting Scientist’& Visiting Prof.* | *Jun’1990* | *Present* | *23 yrs* |
| *Sangam Univ, Bhilwara(Raj)* | *Prof. & founder Vice Chancellor* | *Mar’11* | *May’12* | *1 yr & 3 months* |
| *Sunrise Univ. Alwar(Raj)* | *Prof. &Vice Chancellor* | *06 Jun’12* | *31Mar’13* | *.* |
| *Air Force Adm College(Bhartiyar Univ) &AEB* | *M.Phil Examiner & Visiting Prof* | *1985* | *1997* | *12 yrs* | *PG* | *12 yrs* |
| ***Total experience \* (Repetition of the years has been excluded)*** | | | | *31 yrs\** |

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| ***(b). Experience in an Institute/College:***   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | ***Institution\**** | ***Post*** | ***From*** | ***To*** | ***Level*** | | ***Total*** *(in years*  *and months)* | |  |  |  |  | *UG* | *PG* |  | | *Air Force Academy* | *Wing Commander & Instructor* | *1990* | *Jul’1995* |  | *PG* | *4.6 Yrs* | | *Amity School ComputerSc.* | *Prof.& Founder Director* | *1998* | *2000* | *BCA(1)* | *MCA(1)* | *2 yrs* | | *Inst.Mgmt.Studies &MCA* | *Prof.& DirectorGeneral* | *2000* | *2002* | *UG* | *PG* | *2 Yrs* | | *ABES Engg.College* | *Prof.& Director* | *2003* | *2005* | *UG* | *PG* | *2 yrs* | | *TMIMT* | *Prof.& DirectorGeneral* | *2005* | *2007* | *UG* | *PG* | *2 Yrs* | | *BITS(Bhiwani Inst of Tech.Sc.)* | *Prof.& DirectorGeneral* | *2007* | *2009* | *UG* | *PG* | *2 yrs* | | ***Alpine College :*** *Prof.& Director 2010 2011*  ***Of Engg.*** | | | | *UG* |  | *1 yr* | | ***Total experience at UG level : 05*** | | | | | | | | ***Total experience at PG level : 10*** | | | | | | | |

***(c) Experience of working on the Statutory Authorities of a University/ Board of Studies, Academic Council, Executive Council etc.:***

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| ***Sl.no.*** | ***Institution\**** | ***Statutory forum/authority and position*** | ***From*** | ***To*** | ***Total*** *(in years*  *and months)* |
| ***1*** | ***AIU (Association of Indian Univ)*** | ***Expert Panelist*** | ***2000*** | ***Present*** | ***13 yrs*** |
| ***2*** | ***UPTU*** | ***Affiliation Committee Head*** | ***2003*** | ***2009*** | ***6 yrs*** |
| ***3*** | ***NIDM*** | ***Advisor (Hon)*** | ***2005*** | ***2013*** | ***8 yrs*** |
| ***4***  ***5*** | ***UPTU***  ***PTU*** | ***Inspection Committee*** | ***2001***  ***2005*** | ***2011***  ***2009*** | ***10 yrs***  ***5 yrs*** |

***(d)Experience of handling academic assessment and accreditation procedures, etc.:***

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| ***Sl. No.*** | ***Area*** | ***Institution*** | ***Nature of Assignment*** | ***Period (From … to and total period in years and months)*** | ***Achievements and evidence therefor*** |
| ***1.*** | ***Academic Assessment*** | ***Sangam Univ \*& Sunrise Univ*** | ***Vice Chancellor & Made the Statutes, Ordanances ,Regulations & Syllabi*** | ***Mar’11-Jul’13*** | ***>2.6 years*** |
| ***2.*** | ***Accreditation procedures*** | ***IET,ABES,IMS*** | ***Director*** | ***2003-2010*** | ***7 years*** |

***(e). Research Guidance***

***Ph. D :3 M. Tech; 9***

***STATEMENT OF RESEARCH: Prof.(Dr.)Virendra Goswami)***

***$$. Details of Current Research Project:***

***# Application Of Remote Sensing  to Study  Monsoon Variability &  Development of Monsoon Depression Model Through  Dynamic & Morphological Studies of Mesoscale Convective Systems over Indian Oceanic Regions.***

**$$ Satellite Study of Correlation of Biophysical Interactions on Air-Sea CO2 exchange with Climate Variability Over the Western Boundary Current (WBC) regions .**

***$$ Innovative Technologies For Remediation of Water & Environmental Pollution By Catalytic Oxidants.***

***$$Application of Remote Sensing in the Co-evolution of climate and life in the Antarctic & Southern Ocean Through Correlation of Ocean-atmosphere-cryosphere interactions with Climate Variability & Development of Cryosphere Climate Predicting Models (CCPM)***

**# APPLICATION OF REMOTE SENSING IN THE STUDY OF DYNAMICAL & MORPHOLOGICAL STUDIES OF MESOSCALE CONVECTIVE SYSTEMS AND DEVELOPMENT OF WRF (Weather Research and Forecasting) model for CYCLONIC STORMS OVER TROPICS’.**

**$Application of Catalytic Oxidants in Remediation of Water & Environmental Pollution By Development of Predictive Model of Chemical Reaction Kinetics(MCRK)’**

**@@ INNOVATIVE SEQUESTRATION TECHNIQUES OF NEUTALIZING TOXIN GASES** **THROUGH CATLYTIC PROCESSES & DEVELOPMENT OF COMPUTATIONAL FORECASTING CLIMATE CHEMISTRY MODELS (FCCM)**

***#Application Of Remote Sensing  to Study  Monsoon Energetics*&  *Development of Monsoon Depression Model Through  Dynamic & Morphological Studies of  Northern-Southern Hemispheric (NH-SH) Convective Features.***

*#Satellite Study of Correlation of  Sea-level Variability  Mechanism ,  Sub-Mesoscale Dynamics ,Climate Variability  & Development of  Sea-Level Variability Predicting Models (SLVPM)*

***## Application of Remote Sensing in the study of Correlation of Ocean-atmosphere-cryosphere interactions with Climate Variability over the North Atlantic region.***

***# Correlation of Regional Sea-level Variability Mechanism , Sub-Mesoscale Dynamics ,Climate Variability & Development of Sea-Level Variability Predicting Models (SLVPM) .***

***# CORRELATION OF MOUNTAIN GLACIERS, CLIMATE VARIABILITY & INNOVATIVE TECHNOLOGIES TO CONTROL ENVIRONMENTAL POLLUTION .***

***#DEVELOPMENT OF ECO-FRIENDLY MODES OF TRANPORTAION & REDUCE EMISSION THROUGH DETOXYFICATION OF TOXIC GASES BY CHEMICAL PROCESSES***

***# Detoxification of Green House Gases (GHG) through Catalytic Processes, & Development of Forecasting Climate Chemistry Models (FCCM)***

***# CORRELATION OF MOUNTAIN GLACIERS, CLIMATE VARIABILITY & CONTROL SEA LEVEL CHANGES THROUGH***  *CHEMICAL PROCESSES BY DEVELOPING COMPUTATIONAL CORRELATION PREDICTING MODELS (CCPM)* .

***#The Catalytic Processes for CO2 Reduction*** *&* ***Mitigation of the Emission of Greenhouse Gases to Control Global Warming*** *&*  ***Forecasting Climate Chemistry Models (FCCM)***

***# STUDY OF CLIMATE VARIABILITY THROUGH DYNAMICAL AND MORPHOLOGICAL STUDIES OF MESOSCALE CONVECTIVE SYSTEMS AND DEVELOPMENT OF MONSOON DEPRESSION MODEL OVER TROPICS*** *&* ***Mid-Latitudes.***

**# THE APPLICATION OF REMOTE SENSING IN *THERMODYNAMICAL STUDY OF MONSOON ENERGETICS* & *DEVELOPMENT OF MONSOON DEPRESSION MODEL THROUGH MORPHOLOGICAL STUDIES OF NORTHERN-SOUTHERN HEMISPHERIC (NH-SH) CONVECTIVE FEATURES.’***

***# Satellite Investigations of the Regional Variability of the Sub-Mesoscale Dynamics & Its Impact on Larger Scale Through Morphological Studies OF Northern-Southern Hemispheric (NH-SH) Mesoscale Convective Systems.’***

***# Application of Convective Parameterizations to Develop Numerical Climate Variability Predicting Models (NCVPM) Through Morphological Studies Of Northern-Southern Hemispheric (NH-SH) Mesoscale Convective Systems.’***

*#* ***DEVELOPMENT OF LUNAR MASS - ENERGY EQUATION & HARNESSING OF LUNAR ENERGY FOR THE CONTROL OF GLOBAL WARMING BY DETOXIFICATION OF GREEN HOUSE GASES , THROUGH LUNAR COOLING & EXPLORE LIFE ON MOON THROUGH DETOXIFICATION OF LUNAR TOXIC GASES (METHANE & CARBON DIOXIDE).”***

# ***Correlation of Physico-Chemical Characteristics of First row Transition Metal Oxides to develop predictive Model of Chemical Reaction Kinetics(MCRK)’***

***Field of Research of Chemical Technology:***

***My field of research work was Physico-Chemical investigation on solid catalysts vis-à-vis their***

***catalytic characteristics. The work included structural (X-ray diffraction), Thermal (DTA,***

***TGA), electrical (electrical conductivity) and magnetic (magnetic susceptibility) adsorption***

***studies and catalytic activity measurements by studying the dehydrogenation of cyclohexane to***

***benzene and hydrogenation of ethylene to ethane under high pressure. These studies included***

***the vapor phase chromatography measurements as well.***

**PUBLICATIONS: Research Publications(Chemical Technology**)

***(a)’Development of Green Technologies to optimize Eco-Friendly Modes of Transportation & Control of Air Pollution.’; Proc. 5th INTERNATIONAL SCIENTIFIC CONGRESS “GLOBALISTICS-2017” ON: GLOBAL ECOLOGY AND SUSTAINABLE DEVELOPMENT September 24-30, 2017 Lomonosov Moscow State University.***

***(b) ‘DEVELOPMENT OF COMPUTATIONAL CORRELATION PREDICTING MODELS (CCPM) FOR DETOXYFICATION OF GREEN HOUSE GASES THROUGH PHYSICO\_CHEMICAL PROPERTIES OF SOLID CATALYSTS’ Proc .of*** *International Workshop on Coupled Data Assimilation (CADW) Toulouse, 18th-21st October 2016.*

*$(c) OPTIMIZATION OF FARMING & CONTROL OF GLOBAL WARMING THROUGH AGRI-BIOTECHNOLOGY;Int.Conf.AgriBioTechnology,ASSOCHAM,NewDelhi,30Jun’13*

***$ (d)’The physico-chemical characteristics of the chemical substances to Control the Global Warming by the development of physico-chemical process using selective catalyst-beds.’ Presented at ESF-FMSH Entre-Sciences Conference in partnership with UPCAM; Global Change Research II: Environmental Crisis, Energy Issues and Global Regulation Policies: 11-16 Jun’10 IGESA, Porquerolles Island, France.***

***$(e)”******DESIGN OF GREEN DATA CENTRES WITH CONTROLLED GLOBAL WARMING & RELATED ENERGY ISSUES.****"* ***Delivered ;Theme Address*** *: Conference on ‘Green Data Centre-2010’; Taj Hotel, NewDelhi;18Aug’10*

***$(f) “THE CORRELATION OF THE PHYSICO-CHEMICAL CHARACTERISTICS AND CATALYTIC ACTIVITY OF COBALT CATALYSTS & PROSPECTIVE 'SUPER ALLOY CATALYSTS (SAC)';*** *’Accepted for Poster at* ***ECI*** *Int. Natl.Conf.* ***SUPERALLOYS; September 12 - 16, 2010; Awaji Island, Japan.***

***$(g) The Catalytic Processes for CO2 reduction*** *&* ***mitigation of  the emission of Greenhouse Gases to Control Global Warming****. ’Accepted for Short Talk at Conference CO2 Summit: Technology & Opportunity;* ***June 6-10, 2010****,Vail Marriott Mountain Resort ;****Colorado, USA***

***$(h****) CONTROL OF GLOBAL WARMING BY DETOXYFICATION OF CHEMICAL SUBSTANCES & GREEN HOUSE GASES BY CATALYTIC PROCESSES* ***;Presented at E****SF Conf.* ***Mechanisms of Quaternary Climate Change: Stability of warm phases in the past and in the future; Obergurgl , Innsbruck) Austria;*** *June 2009*

***$(i)‘Magnetic and Thermodynamic properties of Co0-I, Co0-II, CoO-I, II’ ,Journal of Hydrogen Materials Science & Chemistry of Carbon Nanomaterials,ICHM-2005,****Savastopol,-Crimea,****Ukraine563-564,2007***

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***$(l)****Studies o f Catalytic Activity of Solid catalysts; II National Symposium on Catalysis, held at IIT, Kharagpur, 1975*

***Field of Research in Atmospheric Sciences and Remote Sensing:***

***Aviation,Tropical,MonsoonandSatelliteMeteorology.Cloudclusters.TropicalStormsDepressions,Tele-connection of NH and SH convective features .Global Warming, Climate Change and Land-Ocean interaction.***

***Research Publication in Atmospheric Sciences and Remote Sensing***

1. ***$ A Satellite study of cloud clusters over South Asia during summer Monex-79’ MAUSAM, 1990 Vol.41No. 2, 177-182.***
2. ***The Tele-connection of Southern Hemisphere Cyclonic Storm in NE-Monsoon over Southern peninsula’ Proc. National Symposium on Tropical Meteorology and National Development (TROPMET - 1993) held at SAC (Satellite Application Center), Ahmedabad, India.***
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*(g) Global satellites and their application in Warfare, Safety, Journal, Dec. 1990.*

1. *Eyes in the sky, Review on satellites, till 1992 IAF Safety Journal Feb 1993, 23-27.*

*i)Thunderstorm: IAF Safety journal, Aug 1993.*

*j)Ex-India route weather summary forms Delhi to Kiew and France.*

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*(m)Meteorological quiz: Safety Journal 1997.*

***Research Publications in Higher Education:***

***(a)’Innovative Technology of Positive Child Parenting’ Proc. IV Child Family Conf.19-20 Nov’16,Abuja,Nigeria.***

*(b)Qualitative Approach for Sustenance of Quality Higher Education through FDI,ICTBM12,Dubai*

*(c)****Optimization of University Governance & Education Management Systems for Sustenance of QualityofHigherEducation’.****ICT4DemocracySummer School 014;SERD,NewDelhi&Karlstad,Sweden.*

***(d) (c)’Computational Correlation of Peace & Development with Religion, Innovation Spirituality & Education (RISE)’;Proc. 5th INTERNATIONAL SCIENTIFIC CONGRESS “GLOBALISTICS-2017” ON: GLOBAL ECOLOGY AND SUSTAINABLE DEVELOPMENT September 24-30, 2017 Moscow State University.******Books & Miscellaneous.***

*(a)‘Innovation & Education’; Studium Publication,2017*

*(b) ‘Health & Domestic Violence’ ; Studium Publication,2017*

*(c) ‘Higher Education & Leadership’; CEGR Pblications-2016*

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***.(e)*** *Translated Mrs. RajKumari’s* ***‘Prateeksha****’ Novel (Hindi) into English as* ***‘EXPECTATION’*** *by GPH, NewDelhi, India in 2011, ISBN #978-92-81066-16-42.*

***(f)*** *"Control of Global warming Through Chemical process";ByDr.Goswami ;Studium Pub.2016*

*(g) "VG:EMS" (Virendra Goswami Education Management Systems"( Under Process),*

*(h) VG Hypothesis Of Invention, By Dr.Virendra Goswami ( Under Process),*

*(i) Highway to sustenance of Quality in Higher Education (VG-SHE-Q);By Dr.Virendra Goswami ( Under Process)*

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*1.Dr.GR MakakEx .Faculty: Mathematics ,Indian Inst.of Tech.(IIT) Kharagpur,* [*drgrmakan@gmail.com*](mailto:drgrmakan@gmail.com)*,+919425156985*

*2. DR.G.Singh Ex DDG:ICAR(Govt.of India),Ex.ViceChancellor,+919425391198,drgsingh@rediffmail.com*

*3. Prof.(Dr.) DilkeshwarPandey,Head ComputerSc.Engg. +9811410032,dilkeshwar.pandey@abesit.in*

*4. Dr. RajeshPathak. Dir.College of Technology,GNA,rajinmood@gmail.com, +919457544629*