

# Engr. Ch. Abrar Inayat

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Role:	Assistant Professor	
Qualifications:	MS. Engineering (Sweden)	
Experience to Date	6 Years	
Email:	<a href="mailto:Ainayat@ciitlahore.edu.pk">Ainayat@ciitlahore.edu.pk</a> <a href="mailto:abrar.inayat@gmail.com">abrar.inayat@gmail.com</a>	
Location:	Department of Chemical Engineering, COMSATS Institute of Information Technology.	
	Defence Road, Off Raiwind Road, Lahore-Pakistan	
Contact:	In Pakistan: Off: +92-42-111001007 Cell: +92-333-4005657 Home: +92-42-5040153 In Malaysia: Off: +60-5-3688208 Cell: +60-17-5671574 Home: +60-5-3654327	

## Education

<b>2009 to Date</b>	<b>PhD Scholar</b> (Chemical Engineering) Universiti Teknologi PETRONAS, Tronoh, Malaysia.
<b>2004-2006</b>	<b>MS. Engineering</b> (Sustainable Energy Systems)     A Mälardalens University, Västerås, Sweden.
<b>1998- 2002</b>	<b>B.Sc. Engineering</b> (Chemical Engineering)     73.3% A University of the Punjab, Lahore, Pakistan
<b>1995 -1997</b>	<b>H.S.S.C.</b> (Pre-Engineering)     72.7% A F.G.Degree College, Kharian Cantt, Pakistan
<b>1993 - 1995</b>	<b>S.S.C.</b> (Science)     77.5% A Govt. Model High School, Lalamusa, Pakistan

## Current Appointment

**Aug 22, 2008 to Date:** As Assistant Professor in Department of Chemical Engineering, COMSATS Institute of Information Technology, Lahore-Pakistan

**June 29, 2007 to Aug 21, 2008:** As Lecturer in Department of Chemical Engineering, COMSATS Institute of Information Technology, Lahore-Pakistan

## Teaching

### Teaching at COMSATS (CIIT), Lahore-Pakistan

Fall 2007	Chemical Engineering Transfer Operations Fuel and Combustion
Spring 2008	Chemical Engineering Transfer Operations Chemical Heat Transfer Operations (Lab)
Fall 2008	Chemical Engineering Transfer Operations Chemical Heat Transfer Operations (Lab)

## Professional Roles

### At COMSATS Institute of Information Technology, Lahore-Pakistan

1. **Established** Chemical Transfer Operations Laboratory in the Department of Chemical Engineering.
3. **Member** Disciplinary Committee of the Department of Chemical Engineering
4. **Industrial Liaison Officer** in the Department of Chemical Engineering
5. **Event Management Coordinator** in the Department of Chemical Engineering
6. **In-charge** Departmental Seminar Organizing Committee
7. **Convener** COMSATS SOCIETY FOR SUSTAINABILITY
8. **Member** Biomass Conversion Research Group
9. **Member** Departmental Financial Assistance Committee
10. **External Examiner** for the Department of Chemical Engineering
  - NFC Institute of Engineering & Technology, Faisalabad, Pakistan.

## Previous Appointments

**May 2007 to June 2007:** As Assistant Manager in Utility Process Department, Dewan Salman Fibre Ltd., Hattar Industrial Estate, Haripur-Pakistan

**October 2005 to March 2007:** As Sub Engineer in Engine Room, Birger Jarl, Anedin Linjen, Stockholm, Sweden.

**September 2003 to August 2004:** As Assistant Engineer in Utility Process Department, Dewan Salman Fibre Ltd., Hattar Industrial Estate, Haripur-Pakistan

## Responsibilities

- Production & Process Control
- Study & Analyze the daily Process data and Daily Report submission
- Study, Suggest and Implement changes for Process & Production Improvement
- To ensure Safety and Health of Staff
- Training of Junior Officers and Staff
- Communication & Co-ordination with Local and International Delegates and Contractors/Vendors
- Participated in the Hiring process of the staff
- Supervised the whole Utility Process Equipment.(Chillers, Compressors, Boilers, Cooling Towers, Air Handling Units)
- Co-ordinates at Nitrogen production Unit & Water Treatment Section

## Research Interest

- Sustainable Energy Systems
- Biomass/Coal Gasification
- Heat Integration
- Co-Generation
- Optimization

## Projects & Reports

1. **Abrar Inayat** and Adel Karim “Designing of district cooling system using deep cooling water as a source in Stockholm”.
2. **Abrar Inayat**, Callistus Ezeani, Ekun Ferdin and Njah Michael Ezewudo “Project report on feasibility of water pumping applications using photovoltaic solar cells in Västerås”.
3. **Abrar Inayat**, Michel, Roman and Adam “Project design of heat pump using outdoor heat as air source”.

4. **Abrar Inayat** and Erik “Project report on sustainability of dimethyl ether as fuel in Volvo trucks”.
5. **Abrar Inayat**, Callistus Ezeani, Ekun Ferdin and Njah Michael Ezewudo “Project report on feasibility fuel cell power stations in Västerås”.
6. **Abrar Inayat**, Kamran Akhter, Naveed Izhar and Yasser Ahmad “Plant design on the production of ammonia from synthesis gas”.
7. **Abrar Inayat**, Kamran Akhter, Naveed Izhar and Yasser Ahmad and Niaz Ahmad “Process design on the manufacturing of medicated Soaps”.

### **Congress** (presenter is underline)

8. **Abrar Inayat**, Murni M Ahmad and M I Abdul Mutalib “Effect of Process Parameters on Hydrogen Production and Efficiency in Biomass Steam Gasification with in Situ CO<sub>2</sub> Capture” in Proceeding of International Conference on Process Engineering and Advance Material (ICPEAM 2010), 15-17 June 2010, Kula Lumpur, Malaysia
9. Chai Kian Chiew, **Abrar Inayat** and Murni M Ahmad, “Simulation of Hydrogen Production from Biomass via Pressurized Gasification using iCON” in Proceeding of International Conference on Process Engineering and Advance Material (ICPEAM 2010), 15-17 June 2010, Kula Lumpur, Malaysia
10. **Abrar Inayat**, Murni M Ahmad, M I Abdul Mutalib and Suzana Yusup “Kinetics Modeling for Enriched Hydrogen Gas Production through Steam Gasification of Biomass with CO<sub>2</sub> Adsorption” Poster presented at Engineering Design Exhibition (EDX-25), 21-22 April 2010, University Teknologi PETRONAS, Perak, Malaysia (**Silver Medal**)
11. Murni M. Ahmad, M. Khairuddin Yunus and **Abrar Inayat** “Simulation of Gasification with In-Situ carbon Dioxide Adsorption of Empty Fruit Bunch into Hydrogen” in Proceeding of International Conference on Chemical Engineering and Application (CCEA 2010), 26-28 February 2010, Singapore (ISBN 978-1-84626-023-0)
12. Mohd K. Yunus, Murni M. Ahmad, **Abrar Inayat** and Suzana Yusup “Simulation of Enhanced Biomass Gasification for Hydrogen Production using iCON” in Preceding of International Conference on Chemical and Biological Engineering (ICCBCE 2010), 24-26 February 2010, Penang, Malaysia, World Academy of Science, Engineering and Technology 62 (2010) pp. 753-760 (ISSN: 2070-3740)
13. **Abrar Inayat**, Murni Melati Ahmad, M Ibrahim A Mutalib and M Khairuddin Yunus “Kinetic Modeling of Biomass Steam Gasification System for Hydrogen Production with CO<sub>2</sub> Adsorption” in Proceedings of International Conference for Technical Postgraduates (TECHPOS 2009), 14-15 December 2009, Kula Lumpur, Malaysia (ISBN 978-983-42035-9-7)

14. **Abrar Inayat**, Moinuddin Ghauri, Imran Aslam, Amjad Riaz. ‘Energy Consumption in Pakistan using Co-Generation Technology’. Abstract accepted and published in abstract book of International Conference on Energy for Sustainable Development (ESD-2008). The conference was planed in Nov 2008 by DCET-Karachi and CIIT-Lahore, Pakistan (waiting for next date).
15. **Imran Aslam**, Moinuddin Ghauri, **Abrar Inayat** and Muhammad Yasin. ‘Comparison of zeolite and silica based sorbent for the desulfurization of liquid fuels’. Abstract accepted and published in abstract book of International Conference on Energy for Sustainable Development (ESD-2008). The conference was planed in Nov 2008 by DCET-Karachi and CIIT-Lahore, Pakistan (waiting for next date).
16. **Imran Aslam**, **Abrar Inayat**, Ghulam Murshid, Asim Laeeq Khan. ‘Adsorptive Desulfurization of Kerosene and Diesel for Fuel Processing in Fuel Cell Systems’. In Proceeding of International conference on Plant Equipment and Reliability (ICPER 2008), Kula Lumpur, Malaysia, March 27, 2008.
17. **Abrar Inayat**, Moinuddin Ghauri, Imran Aslam, Asim Laeeq Khan “District Cooling Systems in Pakistan using Rivers & Canals water as cooling source” Abstract accepted & published in abstract book of International Conference on Plant Equipment and Reliability (ICPER 2008), Kula Lumpur, Malaysia , March 27, 2008.

## Computer Skills

- MS Office/ Visio
- Fortran, Martes, MATLAB, TPP 200, PROSIM Simulation, iCON Process Simulator, Heat Integration Software (Sprint , Star)

## Bio Data

<b>Father Name :</b>	<b>Inayat Ullah</b>
<b>Date of Birth :</b>	<b>September 27, 1979</b>
<b>Marital Status:</b>	<b>Married</b>
<b>Health :</b>	<b>Non-smoker &amp; non-drinker</b>