

Candidate's Details/Cover Letter

S. No	Name:	Dr. Behramand
1	Residence	Gul Bahar No 3, Peshawar
2	Qualification	PhD Organic Chemistry from Federal University of Santa Catarina, Brazil
3	Post applied for:	Assistant Professor Organic Chemistry (on TTS basis) at department of Chemistry, Islamia College Peshawar.
4	No of posts advertised for the subject of Organic Chemistry	1 post on BPS and 1 post on TTS (however the selection board has the authority to increase the number of posts)
5	Date of the Selection Interview	16 th March 2016, at 9:00 a.m. in committee room, old principal house, Islamia College Peshawar.
6	Current status	Working as Assistant Professor and also as Head of the Institute of Chemical Sciences, University of Swat.
7	Additional Responsibilities	<ul style="list-style-type: none"> • In-Charge of the Institute of Chemical Sciences, University of Swat. • Member & Focal Person of the QEC Program Team of the University of Swat • Semester coordinator of the Institute of Chemical Sciences • Member of the inspection committee for affiliated colleges and institutes.
8	Achievements as In-charge of the ICS, University of Swat	<p>I joined Institute of Chemical Sciences, University of Swat as the first faculty and as first In-Charge. During this period, I have been able to:</p> <ul style="list-style-type: none"> • Strengthen the institute in terms of faculty and students • Have designed the curriculum for M.Sc. Chemistry program as per HEC guidelines and have also approved them from the syndicate. • Approve proposal for initiating M.Phil and PhD programs in the Institute. The proposal has now been submitted to the HEC for NOC. • Have initiated the BS in Chemistry Program. • Have designed and compiled program structures and curricula for BS, M.Phil and PhD programs. The curricula are almost ready to be submitted to the syndicate for approval. • Launch a separate basic laboratory for the Institute of Chemical Sciences where routine Practicals are conducted. Demand for the purchase of instruments and chemicals have been made to further strengthen the lab. • A demand list of books has been submitted to the central library for the purchase of books. The books will meet the need of students of all the programs, i.e. BS, M.Sc. M.Phil and Ph.D.

Dr. BEHRAMAND

**Assistant Professor, Department of Chemistry
Islamia College Peshawar (A Chartered University)**



Date of Birth: 2nd April 1980

Permanent Address: Muhammadi Street, Fazal Abad, Gulbahar # 3 Peshawar, Pakistan.

Email: behramand_chemist@yahoo.com, behramand@uswat.edu.pk

Current Status:

Working as Assistant Professor in Department of Chemistry, Islamia College Peshawar (A Chartered University)

Research Interests:

- Synthesis of Rationally Designed Fluorescent Compounds with Opto-electronic Properties.
- Synthesis and Characterization of New Thermotropic Liquid Crystals.
- Bioassay guided Phytochemical Investigation of Medicinal Plants for bioactive natural products.

Academics:

Degree	Year	Univ./ Board	Major subjects Studied	Div/GPA
Ph.D.	2013	UFSC-Brazil	Organic Chemistry	4
M.Sc.	2002-2004	Peshawar	Organic Chemistry	1 st
B.Sc.	2002	Peshawar	Chemistry, Zoology, Geography	1 st
H.S.S.C	1999	Peshawar	Chemistry, Zoology, Botany, Physics, English	1 st
S.S.C	1996	Peshawar	Physics, Chemistry, Biology, Maths, English	1 st

Advance Courses Taken During M.Phil/PhD:

- Static and Dynamic Stereochemistry
- Spectroscopic Techniques for Characterization of Organic Molecules
- Chemistry of Reactive Intermediates, i.e. Carbenes, Nitrenes, Free radicals, Benzyne and Arynes, Carbocations etc
- Advance Organic Synthesis
- Methods of Separation (Metodos de Saparacao)
- Advanced Organic Chemistry I (Quimica Organica Avancada I)
- Advanced Organic Chemistry II (Quimica Organica Avancada II)

Special Short Courses:

- A course on X-Ray Crystallography Technique offered by

Prof. Dr. Masood Parvez

Department of Chemistry, University of Calgary, 2500 University Drive NW Calgary, Canada

- **Lecture series on Modern Mass Spectrometry offered by Prof. Dr. David Smith**
Former Director of the Nebraska Center for Mass Spectroscopy & Emeritus Professor of Chemistry, University of Nebraska
Lincoln, NE 68006 USA.

Work Experience:

Position	Institution/Organization	Duration		Total
		From	Till	
Assist. Professor	Islamia College Peshawar	December 30 th 20016	date	
Assist. Professor	ICS, University of Swat	December 3 rd 2013	December 30 th 2016	3 years, 27 days
Lecturer in Chemistry	Islamia College Peshawar	October 2008	March 2009	5 months
Jr. Research Fellow	H.E.J. Research Institute of Chemistry, University of Karachi	February 2005	September 2008	3 years, 7 months

Research Experience:

- Phytochemical Investigation and Isolation of Bergenine from Bark of *Mallotus Phillipenensis* (M.Sc. Thesis).
- Worked as full time Junior Research Fellow from **February 2005-September 2008** in Laboratory of Supramolecular Chemistry at H.E.J. Research Institute of Chemistry of the International Centre for Chemical and Biological Sciences, University of Karachi.
- Syntheses and Characterization of Luminescent Compounds Containing 2,1,3 Benzoxadiazole and 2,1,3 Benzothiadiazole and Thiophene based Luminescent Liquid Crystals (PhD Thesis)

International/National Exams and Honours:

- **GRE Chemistry test** (by ETS, USA) score secured **75 Percentile**.
- Junior Research Fellowship Award by ICCBS (HEJ), University of Karachi
- **TWAS-CNPq** Postgraduate Fellowship by CNPq Brazil

Additional Responsibilities:

- In-Charge of the Institute of Chemical Sciences, University of Swat.
- Member & Focal Person of the QEC Program Team of the University of Swat
- Semester coordinator of the Institute of Chemical Sciences
- Member of the inspection committee for affiliated colleges and institutes.

Research Publications:

1. Hugo Gallardo, Gilmar Conte, Patricia A. Tuzimoto, **B. Behramand**, Fernando Molin, Juliana Eccher and Ivan H. Bechtold. New Luminescent Liquid Crystals Based on 2,1,3-Benzothiadiazole and Bent Five-membered N-Heterocyclic Cores. *Liquid Crystals*, 39, (9), 1099–1111, 2012.
2. **Behramand Behramand**, Fernando Molin, Hugo Gallardo. 2,1,3-Benzoxadiazole and 2,1,3-benzothiadiazole-based fluorescent compounds: Synthesis, characterization and photophysical/electrochemical properties. *Dyes and Pigments* 95, 600-605, 2012.
3. Amir Zada Khan, Akhtar Muhammad, Zafar Iqbal, Itrat Anis, Muhammad Raza Shah, Said Nadeem, **Behramand Behramand**, Inamullah Khan. Anti-pyretic activity of Viscosine isolated from *Dodonaea viscosa*. *Iran J. Pharmaceutical sciences* (submitted).
4. **Behramand Behramand**, Edivandro Giroto, Hugo Gallardo Thiophene-based bent-shaped luminescent liquid crystals: synthesis and characterisation. *Liquid Crystals*.
<http://dx.doi.org/10.1080/02678292.2016.1272723>

Oral Presentations:

- **“Total Synthesis of Thapsigargin, a Potent SERCA Pump Inhibitor”** published in *Org. Lett.*, 9 (4), 663 -666, (2007) presented at H.E.J Research Institute of Chemistry, University of Karachi, Pakistan.
- **"Suzuki-Miyaura Coupling"** Presented at Chemistry department of the Federal University of Santa Catarina-Brazil as part of the course on "Advanced Organic Chemistry II".
- **"UV-Vis, Fluorescence and Refractive index detection in Liquid Chromatography"** Presented at Chemistry department of the Federal University of Santa Catarina-Brazil as part of the course on "Methods of Separation".
- **"β-Secondary Kinetic Isotopic Effect: Effect of Hyperconjugation on Kinetics of the Chemical Reactions"** Presented at Chemistry department of the Federal University of Santa Catarina-Brazil as part of the course on "Advanced Organic Chemistry I".
- **Nucleophilicity and Nucleofugality of Phenylsulfinate (PhSO₂⁻) : A Key to Understanding its Ambident Reactivity"** published in the *J. Amer. Chem. Soc.* 132 (13), 4796-4805, (2010) presented at Chemistry department of the Federal University of Santa Catarina-Brazil as part of the course on "Advanced Organic Chemistry I".
- **“Synthesis and Characterization of a Highly Conjugated Fluorescent Compound derived from 5,6-dialkoxy-2,1,3-benzothiadiazole”** Presented in the 18th Chemistry Meeting of the South Region, held (Nov. 11-13 2010) at Curitiba, Parana, Brazil.
- **"Syntheses and Characterization of Luminescent Compounds Containing 2,1,3-Benzoxadiazole and 2,1,3 Benzothiadiazole and Thiophene based Luminescent Liquid Crystals"**. PhD thesis defense at Chemistry department of the Federal University of Santa Catarina-Brazil

Symposia and Poster Presentations:

- Participated in the 10th International Symposium on Natural Product Chemistry (January 6-9, 2006) held at H.E.J. Research Institute of Chemistry University of Karachi Pakistan.
- **“Luminescent Liquid Crystals Containing 1,3-thiazole heterocycle”** Work presented as poster in 13th Brazilian Meeting on Organic Synthesis, Book of Abstracts, page 137, held (Aug. 31-Sep. 4, 2009) in Sao Pedro, Sao Paulo, Brazil.
- **“Synthesis and study of new Eu (III) Complexes with [1,2,5]-thiadiazol[3,4-f][1,10]phenanthroline and pyrazolone derivatives as ligands”** Work presented as poster in 33rd Annual Meeting of Brazilian Chemical Society, held (May 28-June 1, 2010) in Aguas de Lindoia, Sao Paulo, Brazil.
- **“Synthesis of new Luminescent Materials based on 2,1,3-Benzothiadiazole heterocycle and 4-Bromophenol, Catechol, Pyrogallol derivatives”** Work presented as poster in 33rd Annual Meeting of Brazilian Chemical Society, held (May 28-June 1, 2010) in Aguas de Lindoia, Sao Paulo, Brazil.
- **“Synthesis and Characterization of a Highly Conjugated Fluorescent Compound Derived from 5,6-dialkoxy-2,1,3-benzothiadiazole”.** Work presented as poster in 18th Chemistry Meeting of the Southern Region, held (Nov. 11-13 2010) in Curitiba, Parana, Brazil.
- **“Synthesis of Benzoselenodiazole Containing Compounds and Studies of their Physical Properties”.** Work presented as poster in 3rd Meeting about Selenium and Tellurium (3rd ESeTe), held between 29 Nov - 2 Dec; 2010 in Florianopolis, Brazil.
- **“Synthesis and Characterization of a new 5,6-dialkoxy-2,1,3-benzothiadiazole based highly Conjugated Fluorescent compound”.** Work presented as poster in 34th Annual Meeting of the Brazilian Chemical Society, held (May 23-26, Book of Abstracts p.126) in Florianopolis-SC, Brazil.
- **“Syntheses and photophysical investigations of 2,1,3-benzoxadiazole based luminescent compounds”** Work presented as poster in 14th Brazilian Meeting on Organic Synthesis, held (Sept. 1-5, 2011, Book of Abstracts p.20) at Brasilia-DF, Brazil.
- **“Synthesis and Characterization of V-Shaped Luminescent Compounds derived from 5,6-dibromo-2,1,3-benzothiadiazole”.** Work presented as poster in 19th Chemistry Meeting of the Southern Region, held 7-9th November at Tubarao, Santa Catarina, Brazil.
- **“Synthesis and Characterization of thiophene based luminescent liquid crystals”** Work presented as poster in 12th Latin American Conference on Physical Organic Chemistry, April 07 - 12, 2013, Foz do Iguacu, Brazil.

References:

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