

Dr. Komal Saini



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SUMMARY

Age: 50 Years

Number of year of experience in teaching: 14 years

Area of Specialization: Questioned Documents

Ph.D. awarded on Title: "A Study of various factors influencing Handwriting".

Subjects Taught: Questioned Documents, Ballistics.

Number of Ph.D. supervised: 2

TOPICS of Ph.D. THESIES:

- 1. Forensic Examination of Photocopied Documents**
- 2. Evaluation Of Some Methods For The Determination Of Sequence Of Intersecting Strokes**

Number of Ph.D. supervised (Thesis submitted): 1

TOPICS of Ph.D. THESIES submitted:

Forensic Studies on Computer Manipulated Documents using Image Processing Techniques

Number of Ph.D. students Registered- 4

Number of M.Sc. dissertations supervised: 29

Number of conferences/seminars/symposia attended: 23

Number of papers published: 26

Number of Books Published- 2

Membership of Professional Bodies/Organisations:

Indian Academy of Forensic Science

Indian Science Congress Association

Punjab Academy of Sciences

ACADEMIC EXELLENCIES

- Awarded with **UGC NET** in 1996.
- **Member, Board of studies** in Department of Forensic Science since August, 2003.
- **Academic Council of Department**
- **Faculty of Physical Sciences**
- **Research Board of Department**
- **Admission Committee**

PROJECTS UNDERTAKEN

DST Project under women scientist scheme A (WOS-A) Entitled “Forensic identification and detection of fraudulent photocopies” 2012

RESEARCH PUBLICATIONS

Saini, K. and Saroa, J.S., “Determination of the authenticity of photocopied Documents” *Problems of Forensic Sciences 2016*, vol. 108, 623–631

Saini, K. and Saroa, J.S., “Characterization of Printing Characteristics of Color-Photocopied and Laser-Printed Documents,” *Journal of Forensic Identification*, 2016, Vol. 66 (2); 155-170

Saini K.,Rathore R.,Saini A. “Forensic analysis of Toners by Thin Layer Chromatography and High Performance Thin Layer Chromatography” *Res. J. Forensic Sci.*, 2016, Vol. 4(3),;6-20.

Saini K. and Kaur S,“Forensic Examination of Computer Manipulate Document by Image Processing Technique,” *Egyptian journal of Forensic Sciences*, 2016, Vol.6; 317–322

Saini, K., Heer, H. K. and Rathore, R. “Differentiation of Inkjet Printer Inks by Thin Layer Chromatography and High Performance Thin Layer Chromatography”, *Research Journal of Forensic Sciences* 2015, Vol. 3(7); 1-7

Saini K. “A Study of Various Factors Influencing handwriting,” 2015, Lambert Academic Publishing, ISBN-978-3-659-76622-0

Saroa, J.S. and Saini, K. “Forensic examination of Photocopies/ laser printouts: their nature, source and authenticity,” 2014, Lambert Academic Publishing , ISBN-978-3-659-62086-7

Saini, K. and Kaur, H. and Gupta, M., “Analyses of Blue Gel Pen Inks Using Thin Layer Chromatography and Visible Spectrophotometry” *Journal of Forensic Identification*, 2014, Vol.64 (1); 28-42.

Saini, K. and Saroa, J.S., “Physical Examination of Photocopied Documents” *Problems of Forensic Sciences*, 2013, Vol.94; 485-501.

Kaur, R. and Saini, K. and Sood, NC, “Sequencing the intersections of printed strokes with writing instrument strokes using DocuCentre expert (PIA 6000-EDF)” *Science and Justice*, 2013, Vol.53; 206-211.

Kaur, R. and Saini, K. and Sood, NC, “Application of Video Spectral Comparator (absorption spectra) for establishing the chronological order of intersecting printed strokes and writing pen strokes” *Science and Justice*, 2013, Vol.53; 212-219.

Saini, K. and Saroa, J.S., “Differentiation of color Photocopy Toners using TLC, UV and FTIR techniques,” *Journal of Forensic Identification*, 2011, Vol.61 (6); 561-580

Saini, K. and Saroa, J.S., “Determination of generation of photocopy by image processing” *Problem of Forensic Science*, 2011, vol. LXXXIV, 315–325.

Saini, K. and Saroa, J.S., “Discrimination Potential of UV and FTIR Spectroscopy for the analysis of Black Photocopy Toners” *International Journal of Pharma Recent Research*, 2010, 2(2); 40-51

Saini, K. and Kaur, R. and Sood, NC, “A study for establishing the sequence of superimposed line: inkjet versus writing instruments,” *Forensic Science International*, 2009, Vol. 193; 14-20.

Saini, K. and Kaur, R. and Sood, NC, “Determination the sequence of intersecting gel pen and laser printed strokes-A comparative study,” *Science and Justics*, 2009, Vol. 49; 286-291.

Saini, K. and Singh, A., “The Evaluation of Handwriting Features in Photocopied Signatures,” *Internet Journal of Forensic Science*, 2009, Vol. 4(1); 1-10.

Saini, K. and Saroa, J.S., “Thin layer Chromatography of Refilled photocopier toners” *Journal of Forensic Identification*, 2008, Vol. 58(3); 305-316.

Saini, K., Saroa, J.S. and Hundal, G.S., “Thin layer Chromatography of inkjet printer inks” *The Indian Journal of Criminology and Criminalistic* Jan.-April 2007, Vol XXVIII (1); 74.

Singla, AK, Saini, K., Jasuja, OP, and Singh, S., “A comparison of line Quality Defects attributed to defective writing instruments and forgery,” *Handbook of Forensic Science; edited by Prof. (Dr.) Vimala Veeraraghavan;* 2004, Selective and Scientific books; New Delhi.

Saini, K., Jasuja, OP, Singla, AK and Singh, S., “A Study of the handwriting of visually impaired persons,” *International Journal of Forensic Document Examiners*, Jan/Dec 1999, Vol.5; 39-53

Jasuja, OP, Saini, K., “Examination of Gurmukhi script; a preliminary report” *Science and Justice*, 1996, 36: 9-13

Chahal K, Chattopadhyay P.K. and Thakar M.K., “Medulla Types of Hair: A Population Study”. *Indian Anthropologist*. 1993, 23(1):” 87-90

Thakar M.K, Chahal K, and Chattopadhyay P.K., “Inheritance of Medulla Types” *Proc.Indo-Pacific Congress on legal Medicine and Forensic Science, Madras, 1989:168-169*

Chahal K. And Chattopadhyay, P.K., “Determination of Blood Groups Specific ABH Substances from Lip prints’ *Jnl. I.A.M., 1989, 11(2): 60-61.*

PLANNARY LECTURES / INVITED LECTURES DELIVERED (LAST TWO YEARS)

- 2 Lectures delivered on topics entitled "Forensic examination of Laser printed and photocopied documents" and " Determination of Authenticity of photocopied documents" at **3-day workshop on Forensic documents**, 10th – 12th April 2017 Organised by Sardar Vallabhbhai Patel National Police Academy, Hyderabad.
- Lecture delivered on topic entitled "Study of the effect of substrate on dot-matrix printing" at 17 Wroclaw International symposium on questioned document examination 15-17 June 2016, Poland.
- Lectured delivered at refreshers course to teaching faculty and academic staff at Academic Staff College, Punjabi university, Patiala. Punjab.
- Invited lectures delivered at Maharishi Dayanand University, Rohtak, Haryana.
- Lecture delivered on topic entitled "Forensic examination of photocopies from their physical characteristics' at **International Conference on Questioned Document Examination** 10th – 12th January 2015 Organised by department of Forensic Science, Punjabi University Patiala 12. UGC – SAP.

PARTICIPATION IN CONFERENCES, SEMINARS, WORKSHOPS AND SYMPOSIA

- **Silver jubilee celebrations of the Indian Academy of Forensic science** at Patiala from 3-6 Oct., 1986.
- **Symposium on Questioned Document & Handwriting Examination** at Punjabi University, Patiala, from 8-9 April, 1988.
- **National Meeting of Young Scientists & Research** Fellows on Impact of Science on Human Welfare at Punjabi university, Patiala from 17-19 Jan., 1989.
- **11th Annual Conference of the Indian Academy of Forensic Medicine** at M.K.C.G. Medical College. Berhampur, Orissa from 2-4 Feb., 1989.
- **SAARC Workshop on Forensic Science** at Punjabi University, Patiala, from 4-7 Oct., 1995.
- **83rd Session of Indian science Congress** at Punjabi university, Patiala from 3-8 Jan., 1996.
- **84th session of Indian Science Congress Association** at Delhi from 3-8 Jna., 1997
- **International symposium on Forensic Science** organized by Department of Forensic Science, Punjabi University, Patiala, 2001.
- **International Symposium on Forensic Science** at Punjabi University, Patiala from 14-17 Feb., 2002.
- **XV All India Forensic Science Conference** organized by Directorate of Forensic Science, Ministry of Home Affairs, Govt. Of India Forensic Science Laboratory, Harayana, Madhuban, 2004.
- **National workshop on Forensic Facial Reconstruction** organized by Department of Forensic Science, Punjabi University, Patiala, 2005
- **National symposium on Cyber Forensic and Computer crimes** organized by Department of Forensic Science, Punjabi University, Patiala 2006.
- **International Symposium in Advances in Fingerprint Identification**, organized by Department of Forensic Science, Punjabi University, Patiala, 2008.

- **International Symposium on Emerging Trends in Forensic Science** (22-24 Feb. 2010) Organised by – Department of Forensic Science, Punjabi University, Patiala (India)
 - **Science & Technology Entrepreneur Park** (November 21-22, 2011) workshop on High performance Thin Layer Chromatography held at STEP, Thapar University, Patiala.
 - **UGC-Sponsored Workshop on Disaster Management** (November 14-21, 2013) held at Punjabi University, Patiala.
 - **International Symposium on Emerging Paradigms in Forensic Science** (7 – 9 March 2013) Organised by – Department of Forensic Science, Punjabi University, Patiala (India) and University Grants Commission (SAP Programme), New Delhi.
 - **Seminar on HPLC method Development and Validation** (27 November, 2014) held at National Institute of Pharmaceutical Education and Research (NIPER) Sector 67, S.A.S. Nagar, Punjab.
 - **3rd Annual Conference of Indo- Pacific Association of Forensic Odontology** (19-20 January 2014) Organised by – Indo – Pacific Association of Forensic Odontology, held at Punjabi University, Patiala
 - **International Conference on Questioned Document Examination** 10th – 12th January 2015 Organised by department of Forensic Science, Punjabi University Patiala 12. UGC – SAP
 - **Seminar on Forensic Toxicology** 5 th September 2015 Organised by Department of Forensic Science, Punjabi University Patiala
 - **International Fingerprint Research Group Meeting** 19th – 23rd October 2015 Organised by Department of Forensic Science, Punjabi University Patiala
 - **17th Symposium of Questioned Document Examination** organised by Department of Forensic Sciences Faculty of Law, Administration and Economics, University of Wroclaw (Poland) from 15 – 17 June 2016
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