Dr Swadesh Kumar Singh, Professor (ID-499)

Qualification: UG, MECHANICAL (ALIGARH MUSLIM UNIVERSITY) B.TECH (1997), PG IIT DELHI, PRODUCTION ENGINEERING, M. TECH, DEC.(1998), PH. D, IIT DELHI, METAL FORMING, METAL FORMING, 2005.

Experience: 10+ years

Research Interest: Sheet Metal Forming, Finite Element in Metal Forming, Warm and Hydroforming **,**Wood based biocomposites, Nuclear materials

Journal Publications/Conference Proceedings: 92

Books published:

1. A text book on Production Engineering Publisher: Made Easy Publications.

2. A text book on Reasoning and Aptitude Publisher: Cengage Publications.

3. A text book on Industrial Engineering Publisher: LNEC Publications.

International Journals:

1. Nitin Kotkunde, Aditya D. Deole, Amit Kumar Gupta and **Swadesh Kumar Singh**, "Comparative study of constitutive modeling for Ti-6Al-4V alloy at low strain rates and elevated temperatures" Materials and Design, 55, 2014, pp 999-1005.

2. Nitin Kotkunde, **Swadesh Kumar Singh** and Amit Kumar Gupts, "Microstructure Study and Constitutive Modeling of Ti-6Al-4V Alloy at Elevated Temperatures" Materials and Design, 54, 2014, pp 96–103.

3. Syed Mujahed Hussaini, **Swadesh Kumar Singh** and Amit Kumar Gupta, " Experimental and Numerical Investigation of Formability for Austenitic Stainless Steel 316 at Elevated Temperatures" Journal of Materials Research and Technology" Volume 3, Issue 1, January–March 2014, Pages 17-24.

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5. Nitin Muttil, J S Ravichandra, Graham ThorpeaStephan Bigger and **Swadesh Kumar Singh**, "Comparative Study of bond strength of Formaldehyde and Soya based adhesive in wood fibre plywood" Procedia Material Science (to appear).

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7. R.Ramangoud, K. Eshwar prasad and **Swadesh Kumar Singh**, "Construction of formability limit diagrams for EDD steel at elevated temperatures" Procedia Material Science (to appear).

8. Hussaini SM, Gupta AK, **Singh SK**, " Investigation of Material Model for Simulations of Deep Drawing in Dynamic Strain Aging Region" Procedia Material Science (to appear).
9. Lade Jayahari, PV Sasidhar, P Prudvi Reddy, B. Balu Naik, AK Gupta and **Swadesh Kumar Singh**, " Formability studies of ASS 304 and Aluminum and evaluation of friction in deep drawing setup at elevated temperatures using LS-DYNA" Journal of King Saud University - Engineering Sciences, Elsevier Vol. 26, Issue 1, 2014, pp 21-31

10. Syed Mujahed Hussaini, Swadesh Kumar Singh, Amit Kumar Gupta, " Formability and fracture studies of austenitic stainless steel 316 at different temperatures" Journal of King Saud University - Engineering Sciences, Elsevier, to appear.

11. Swadesh Kumar Singh, L. Jaya Hari, B Balu Naik and Amit Kumar Gupta, " Some Metallurgical studies of Austenitic Stainless Steel-304 under warm deep drawing" To appear in Journal of Iron and Steel Research, International.

12. **Swadesh Kumar Singh**, Desu Raghuram and A K Gupta, " A comparison of deep drawn components quality in Warm and Hydro mechanical deep drawing for low Carbon Steel" Under minor revison at International Journal of Advanced Manufacturing Technology.

13. Syed Mujahed Hussaini, **Swadesh Kumar Singh** and Amit Kumar Gupta," Formability of Austenitic Stainless Steel 316 sheet in Dynamic Strain Regime" Acta Metallurgica Slovaca, Vol. 20, 2014, No. 1, p. 71-81.

14. **Swadesh Kumar Singh** and Amit Kumar Gupta, " Comparison of Ironing in warm and Hydromechanical deep drawing of low Carbon steel" Material Science Forum, Vol. 773-774, 2013, 203-210.

15. SM Hussaini, S K. Singh, A K Gupta, "Experimental investigation of Dynamic strain aging regime in Austenitic Stainless Steel 316" International Journal of Engineering Research & Technology, Vol. 2 Issue 8,2013, pp 1691-1694.

16. Amit Kumar Gupta, Hansoge Nitin Krishnamurthy, Yashjeet Singh, Kaushik Manga Prasad and **Swadesh Kumar Singh**, "Development of Constitutive Models for Dynamic Strain Aging Regime in Austenitic Stainless Steel 304" Materials & Design, Volume 45, March 2013, Pages 616-627

17. Nitin Kotkunde, Nitin Krishnamurthy, A. K. Gupta, **S. K. Singh**, " Development of Modified Arrhenius Model for Ti-6al-4v Alloy to Predict the Flow Stress" International

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20. Swadesh Kumar Singh, PV Sasidhar, P Prudvi Reddy, Vinay Kumar,MS Hallika and AK Gupta, " Study of Formability and Friction in Warm Forming of Aluminum IS 737 Alloy" International Journal of Advanced Materials Manufacturing and Characterization for Vol 1, Issue 2, 2012, pp209-216.

21. K. Rakesh Varma, PAPN Varma, KGK Murti, AVS Raju and **Swadesh Kumar Singh**, "Mathematical modelling and experimental validation of excessive ironing of EDD steel in deep drawing setup in Warm conditions" International Journal of Advanced Material Manufacturing and Characterization, Vol. 1, No 1, 2012, pp 165-172.

22. Amit Kumar Gupta, **Swadesh Kumar Singh**, M. Swathi and H. Gokul, "Prediction of Flow Stress in Dynamic Strain Ageing Regime of Austenitic Stainless Steel 316 using Artificial Neural Network" Materials and Design 35 (2012) 589–595.

23. Dareddy Ramana Reddy, **Swadesh Kumar Singh**, B.Balunaik(2011), "Development of bio-degradable friction material for brake pads from Palm Kernel Shell" International Journal of Mechanical Engineering and Materials Sciences Vol. 4, Number 1, pp 1–6.

24. **Swadesh Kumar Singh**, Amit Kumar Gupta and K. Mahesh(2010), "A study on the extent of ironing of EDD steel at elevated temperature" CIRP Journal of manufacturing Science and Technology Vol. 3, Issue 1, pp 73–79.

25. **Swadesh Kumar Singh** and Amit Kumar Gupta (2010), "Application of Support Vector Regression in Predicting Thickness Strains in Hydro-Mechanical Deep Drawing and Comparison with ANN and FEM" CIRP Journal of manufacturing Science and Technology Vol. 3, Issue 1, pp 66-72.

26. **Swadesh Kumar Singh,** M. Swathi, Apurv Kumar and K. Mahesh (2010), "Understanding formability of EDD steel at elevated temperatures using finite element simulation" Materials and Design Vol. 31, pp 4478–4484.

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29. Apurv kumar, P. Viswanath, K Mahesh, M. Swati, P M Vinay Kumar, A Abhijit, **Swadesh Kumar Singh** (2010)**, "**Prediction of Spring back in V – Bending and Design of Dies Using Finite Element Simulation" International Journal of Materials and Product Technology, Vol. 39, Nos. 3/4, 2010

30. **Swadesh Kumar Singh** and D. Ravi Kumar (2009), "Tooling Design and Development of set up for Hydro-mechanical Deep Drawing" International Journal of Manufacturing Technology and Management, Vol. 18, No. 3 pp 245-261.

31. **Swadesh Kumar Singh** and D. Ravi Kumar (2008), "Effect of Process Parameters on Product Surface Finish and Thickness Variation in Hydro-mechanical Deep Drawing" Journal of Materials Processing Technology Volume 204, Issues 1-3 pp 169-178.

32. **Swadesh Kumar Singh**, Amrit Dixit and D. Ravi Kumar (2008), "Optimization of the Design Parameters of Modified Die in Hydro-mechanical Deep Drawing using LS-DYNA" International Journal of Advanced Manufacturing Technology vol. 38, no. 1 pp 32-37.

33. **Swadesh Kumar Singh**, G. Partheepan, R. K. Pandey and D. K. Sehgal (2007), "Numerical investigations of constitutive tensile behavior of materials and wrinkling of cold-rolled aluminum sheet when deep drawn through a Tractrix die" International Journal of Computer Applications in Technology, Vol. 28, No. 1 pp 27-33.

34. **Swadesh Kumar Singh** and D. Ravi Kumar (2005), "Application of Neural Network to Predict Thickness Strains and Finite Element Simulation of Hydro-mechanical Deep Drawing" International Journal of Advanced Manufacturing Technology, Vol. 25, No. 1-2 pp 101-107.

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36. **Swadesh Kumar Singh** and D. Ravi Kumar (2004), "Numerical Prediction of the Limiting Draw Ratio and Thickness Strains for EDD Steel Sheet in Hydro-mechanical Deep Drawing" International Journal of Materials and Product Technology , Vol. 21, No. 1/2/3 pp 106-123.

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1. Jaya Hari Lade, B Balu Naik and **Swadesh Kumar Singh,** "Some aspects of Formability of ASS 304 under warm conditions" Journal of Manufacturing Engineering, accepted for publication.

2. **Swadesh Kumar Singh** and D. Ravi Kumar (2004), "Development and Design Considerations in Hydro-mechanical Deep Drawing" Journal of Manufacturing Technology Today, Vol. 3, No. 3 pp15-22.

3. **Swadesh Kumar Singh** and D. Ravi Kumar (2003), "Improvement in Drawability by Hydraulic Counter-pressure Deep Drawing" Journal of Manufacturing Technology Today, Vol. 2, No. 6 pp 6-10.

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1. Nitin Kotkunde, Aditya D. Deole, A.K Gupta and S.K Singh, " Effect of Process Parameters on Deep Drawing of Ti-6Al-4V Alloy Using Finite Element analysis" Accepted for publication in NUMISHEET-2014, Jan 6-10, Deakin University, Melbourne, Australia, AIP Proceedings, pp1065-1068.

2. Jayahari Lade, Amit Kumar Gupta, Balu Naik Banoth and Swadesh Kumar Singh, "Formability analysis of Austenitic stainless steel-304 under warm conditions" accepted for publication in NUMISHEET-2014, Jan 6-10, Deakin University, Melbourne, Australia, AIP Proceedings, pp 402-405.

3. K Sajun Prasad, Raghuram Karthik Desu, Jayahari Lade, Swadesh Kumar Singh and Amit Kumar Gupta, " Finite Element Modeling and Prediction of Thickness Strains of Deep Drawing using an ANN for ASS304" accepted for publication in NUMISHEET-2014, Jan 6-10, Deakin University, Melbourne, Australia, AIP Proceedings, pp 378-381.

4. Nitin Kotkunde, Aditya B, Amit Kumar Gupta, Swadesh Kumar Singh, " Flow stress Prediction of Ti-6Al-4V alloy at elevated temperature using artificial neural network", International Symposium on Engineering and Technology 2014, Pune.

5. Swadesh Kumar Singh, Jandhyala N Murthy, PAPN Varma and D Sailaja, " Study of Rice Straw Biocomposite and a Comparative Study of Flexural Strength of Various Biocomposite Plywood Materials" International Conference on Civil, Biological and Environmental Engineering, Nov. 21-22, 2013 Bangkok (Thailand) pp 37-40

6. NitinKotkunde, Aditya, D. Deole, A.K Gupta and S.K Singh, "Development of Constitutive models for Ti–6Al–4V alloy over wide ranges of low strain rates and temperatures" Accepted for publication in 8th International conference on Preecision. Meso, Micro and Nano Engineering, NIT Calicut, India Dec 13-15, 2013.

7. NitinKotkunde, Aditya, D. Deole, A.K Gupta and S.K Singh, "Comparative study on modified Johnson Cook and Fields-Backofen constitutive models to predict flow behavior of Ti-6Al-4V alloy sheet at elevated temperatuire" International conference on Computer Aided Engineering, IIT Chennai, Madras, Dec 19-21, 2013.
8. Lade Jayahari, B.BaluNaik, Swadesh Kumar Singh, "Simulation and experimental investigation of ASS 304 at various temperatures in warm deep drawing forming Process", 2013 International Conference on Smart Systems (ICSS-2013), 07 – 08 October , 2013, Hyderabad, INDIA.

9. Hansoge, N.K., Singh, Y., Gupta, A.K. and **Singh, S.K.** (2013), "Flow stress prediction of austenitic stainless steel 304 in dynamic strain aging regime using Arrhenius type equation", International Conference on Advances in Materials Processing and Characterization (AMPC), Chennai, February 6-8, 2013, pp. 651-659.

10. Kotkunde, N., Gupta, A.K., Hansoge, N.K., Puranik, P. and **Singh, S.K.** (2013), "Study of flow stress analysis for Ti-6Al-4V alloy using modified Zerilli-Armstrong model", International Conference on Advances in Materials Processing and Characterization (AMPC), Chennai, February 6-8, 2013, pp 933-939.

11. **Swadesh Kumar Singh**, M L Kranthi Raj, B Bandhavi1 and AK Gupta, "Characterization and formability of commercially pure titanium at elevated temperature using finite element method" 4th International and 25th AIMTDR, Jadavpur Univesity, Kolkata India, 2012, pp 168-173.

12. Jaya Hari, Balu Naik and **Swadesh Kumar Singh,** "Study of Formability and Thickness Distribution in Warm Forming of ASS 304" 4th International and 25th AIMTDR, Jadavpur University, Kolkata, India, 2012, India.

13. S.M. Hussaini, A.K. Gupta and **S.K. Singh,** "Determination of the Limiting Drawing Ratio in Deep Drawing Process at Different Temperatures for Austenitic Stainless steel" 4th International and 25th AIMTDR, Jadavpur University, Kolkata India pp 64-67.

14. Singh, Y., Hansoge, N.K., Gupta, A.K. and **Singh, S.K.** (2012), "A comparative study of constitutive models to predict flow stress behaviour in dynamic strain aging regime of austenitic stainless steel 316", 2nd International Conference on Materials Science, Metal & Manufacturing (M3 2012), Singapore, November 19-20, 2012, pp 98-106.

15. **Swadesh Kumar Singh**, Venkata Sasidhar, Vinay Kumar, Prudvi Reddy, and Amit Kumar Gupta, " Comparison of warm and hydromechanical deep drawing when low Carbon steel is subjected to ironing" 15th International Conference on Advances in Materials & Processing Technologies, 23-26 Sept, 2012, Wollongong, NSW Australia.

16. Dareddy Ramana Reddy, Banoth Balunaik, **Swadesh Kumar Singh**, " Development Of A Composite Mate-Rial From Agro Waste For Wear Re-Sistance Application"15th

International Conference on Advances in Materials & Processing Technologies, 23-26 Sept, 2012, Wollongong, NSW Australia.

17. Lade Jayahari, B.BaluNaik, A. K. Gupta and **Swadesh Kumar Singh**, " Study of micro hardness of Deep Drawn cups for Austenitic stainless steel-304 under warm conditions" 11th International conference on high Nitrogen Steels and Interstitial alloys, September 27-29, Chennai, India.

18. Kotkunde, N., Gupta, A.K., Hansoge, N.K., Puranik, P. and **Singh, S.K.** (2012), "Flow stress prediction of Ti-6Al-4V using modified Johnson Cook model", 3rd Asian Conference on Mechanics of Functional Materials and Structures (ACMFMS), Delhi, December 5-8, 2012, pp 709-802.

19. Sharat Chandra G, Raghuram K, Amit Kumar Gupta and **Swadesh Kumar Singh,** "Predicting of flow stress in Dynamic Strain Aging Regime of ASS 304 using support vector regression"11th International conference on high Nitrogen Steels and Interstitial alloys, September 27-29, Chennai, India.

20. P.Venkata Sasidhar, K Limbadri, P Prudvi Reddy, Vinay Kumar and **Swadesh Kumar Singh**, " Study of friction in warm forming of aluminum is 737 alloy using LS-DYNA" International Conference on Materials Processing and Characterization, March 8-10, 2012, Hyderabad, India pp31-36.

21. L. Swetha, D. Keerthi, K., Sai Rajeshwari and **Swadesh Kumar Singh**, " Thickness Distribution in Austenitic Stainless Steel 316 & 304 Drawn Cups" International Conference on Materials Processing and Characterization, March 8-10, 2012, Hyderabad, India pp 43-47.

22. A.V. Siddhartha Gautham, A.Srikanth, Md.Aqheel, J.N.Murthy and **Swadesh Kumar Singh**, " Load displacement studies of stainless steel 316 cups drawn at various temperatures" International Conference on Materials Processing and Characterization, March 8-10, 2012, Hyderabad, India pp 106-112.

23. P.M.S.Hallika, Kameshwari N, M.Pavani and **Swadesh Kumar Singh**, " Study of thickness and stress distribution in warm forming of aluminum IS 737 alloy using LS-DYNA" International Conference on Materials Processing and Characterization, March 8-10, 2012, Hyderabad, India pp118-123.

24. **Swadesh Kumar Singh,** Ramana Reddy and Amit Kumar Gupta, " Comparison on Load and Formability of Low Carbon Steel in Warm and Hydromechanical Deep Drawing" International Conference on Materials Science, Metal & Manufacturing (M3 2011), Singapore, Dec 12-13, 2011.

25. Ramana Reddy, Balu Naik and **Swadesh Kumar Singh**, " Ingredients Composition Formulations and Development of a New Metal Matrix Composite for Friction Lining

Applications Using MINITAB16" International Conference on Materials Science, Metal & Manufacturing (M3 2011), Singapore, Dec 12-13, 2011.

26. V K Anirudh, G Amrutha, AK Gupta and **Swadesh Kumar Singh,** "Flow stress prediction in Austenitic Stainless Steel 316 at elevated temperatures" International Conference on Advances in Materials and Materials Processing, IIT Kharagpur India, Dec 9-11, 2011 pp 123.

27. L. Jayahari, Ramana Gaud, AK Gupta and **Swadesh Kumar Singh**, "Experimental and Design consideration of Stretching of EDD steel sheet at elevated temperatures" International Conference on Advances in Materials and Materials Processing, IIT Kharagpur India, Dec 9-11, 2011 pp 202.

28. Dareddy Ramana Reddy, Banoth BaluNaik, **Swadesh Kumar Singh**, "Comparative evaluation of surface finish (Ra) for Al-SiCP Metal Matrix Composite machining with diamond grinding wheel using multiple regression analysis and ANN (MATLAB)", Fifth International Conference on Advances in Mechanical Engineering (ICAME-2011), June 06-08, 2011, S.V. National Institute of Technology, Surat, INDIA

29. **Swadesh Kumar Singh**, M. Swathi, Ramjee and Amit Kumar Gupta (2010), "Experimental Investigations and Thermal Analysis of Formability of EDD Steels in Warm Forming (up to 450^0 C)" 3rd International and 24th AIMTDR, December 13-15, College of Engineering AU, Vishakapatnam, India.

30. **Swadesh Kumar Singh**, M L Kranti Raj, SM Hussaini and Amit Kumar Gupta (2010), "Characterization and formability of aluminum IS 737 40800 grade material at elevated temperature" 2nd International Conference on Production and Industrial Engineering CPIE-2010, December 3-5, NIT Jalandhar, India.

31. **Swadesh Kumar Singh** and Amit Kumar Gupta (2010), "Comparison of yield criteria for warm forming of EDD steel using FEM" International conference on computing ICC-2010, New Delhi, December 27-28, India.

32. **Swadesh Kumar Singh** PAPN Varma, K. Mahesh, Vomsi Krishna, M. Harshal, Azharuddin, D. Ramesh and Srikesh(2009), "Evaluation of friction at 200^0 C and experimental study on the extent of deformation in flow forming of EDD steel using deep drawing setup" International conference of The journal La Metallurgia Italiana on hot foreming of steels and material properties Grado, Italy, 13-16 september.

33. Rahul.Shashikant.Sanghvi, M.Azharuddin, Sai Kiran.J.G and K.Srikesh, K. Mahesh, Amit Kumar Gupta and **Swadesh Kumar Singh** (2009), "Study the Effect of Temperature on Material Properties of EDD Steel Using Artificial Neural Network (ANN)" International Conference on Advances in Mechanical Engineering, August 3-5, S.V. National Institute of Technology, Surat – 395 007, Gujarat, India, pp 1069-1072.

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35. **Swadesh Kumar Singh,** Amit Kumar Gupta, Apurv Kumar And P. Viswanath (2008), "Application of Support Vector Regression (SVR) in Predicting Spring back in V Bending" 2nd International and 23th AIMTDR, IIT Chennai Dec. 15-16 pp 105-109.

36. **Swadesh Kumar Singh** and D. Ravi Kumar (2005), "Numerical Simulation of Hydro-mechanical Deep Drawing -A Study on the Effect of Process Parameters on Drawability and Thickness Variation" NUMISHEET 2005: Proceedings of the 6th International Conference and Workshop on Numerical Simulation of 3D Sheet Metal Forming Process, Detroit, US, August 5 -Volume 778.

37. **Swadesh Kumar Singh** and B. L. Juneja (2003), "Orientation on an inclined plane" 2nd International conference on CAD/CAM Robotics, August, IIT Delhi, India.

38. **Swadesh Kumar Singh** and D. Ravi Kumar (2003), "Experimental and Theoretical Investigations on Hydraulic Counter Pressure Deep Drawing of EDD steel sheets" Proceedings of Asia Steel International Conference, Jamshedpur, India, Apr. 9-12.

39. Swadesh Kumar Singh and D Ravi Kumar, "Experimental Investigation on Hydraulic Counter-Pressure Deep Drawing" IT Based Manufacturing"2002, pp 449

National Conferences:

1. **Swadesh Kumar Singh,** Ramana Gaud, Eswar Prasad, Jaya Hari and Balu Naik (2009), "Development and Design Considerations of Warm Forming of Aluminum-alloy" NCSAME 09, JNTU Hyderabad, 20-21 Aug India.

2. Apurv kumar, P. Viswanath, K Mahesh, M. Swati, P M Vinay Kumar, A Abhijit, **Swadesh Kumar Singh** (2009), "Design of Dies in V – Bending Using Finite Element Simulation" National conference on emerging trends in Mechanical Engineering, SNIST, Hyderabad, AP, June 18-19 India pp 72-78.

3. **Swadesh Kumar Singh,** K. Mahesh and K. Suresh (2009), "A note on design considerations in flow forming using deep drawing setup" National conference on emerging trends in Mechanical Engineering, SNIST, Hyderabad, AP, June 18-19 India pp 1-6.

4. **Swadesh Kumar Singh** and K. Mahesh (2009), "Evaluation of Friction in Deep Drawing Under Warm Conditions" National Conference on Recent Advances in Manufacturing Technology, Shastra, TN, March 14-15 pp 199-205.

5. **Swadesh Kumar Singh** and Amit Kumar Gupta (2009), "Neural Network and Support Vector Regression Modeling of Turning Operation" National Conference on Recent Advances in Manufacturing Technology, Shastra, TN, March 14-15 pp 132-140.

6. **Swadesh Kumar Singh** and D. Ravi Kumar (2007), "Hydro-Mechanical Deep Drawing of Interstitial-Free Steel Sheets" NATIONAL CONFERENCE ON SHEET METAL FORMING, SMF 'December 12-13 , 2007 Hotel Le Meridien, Pune, India

7. **Swadesh Kumar Singh** and D. Ravi Kumar (2004), "Effect of process parameters on draw ability in hydro-mechanical deep drawing" 21th All India Manufacturing Technology Design and Research Conference (AIMTDR) December India.

8. **Swadesh Kumar Singh** and D. Ravi Kumar (2002), "Experimental Investigation on Hydraulic Counter Pressure Deep Drawing" Proceedings of 20th All India Manufacturing Technology Design and Research Conference (AIMTDR), BIT Ranchi, India, Dec. 13-15 pp 449-454.