Profile Page



Name : Dr Rajeev Verma

Designation : Assistant Professor Grade-i

Department : Industrial & Production Engg.

Qualification : PhD Surface Engineering (Punjab Engineering College

Chandigarh)

ME Production & Industrial Engineering (Punjab Engineering

College Chandigarh)

PGDBA Operations Research (Symbiosis Pune)

B Tech Mechanical Engineering

Address : B-21

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Research Interests:

Thermal Spray Coatings, Superhydrophobic Surfaces, Laser Surface Texturing & Optimization

Other Profile Links:

Google Scholar Link:

Dr Rajeev Verma Click Here

Journal Publications:

Year	Journal	Publication			
2022	International Journal of Heavy	Verma, R., Jagjit Singh Randhawa, Durgaprasad Pitcha, Jawed Ali,			
	Vehicle Systems, Inderscience	Design Optimization of Interference Limits for Cup-Plug Installation in			
		HHP Cylinder Head, (Accepted)			
2022	International Journal of Surface	Khatkar, S. K., Verma, R., Kant, S., & Suri, N. M. (2022). Effect of			
	Engineering and Interdisciplinary	Reinforcements on the Sliding Wear Behavior of Self-Lubricating			
	Materials Science (IJSEIMS)	AZ91D-SiC-Gr Hybrid Composites, 10(1), 1-19.			
2021	Surface Topography: Metrology	Kumar, V., Verma, R., Sharma, V., & Sharma, V. S. (2021), 'Recent			
	and Properties.	Progresses in Super-Hydrophobicity and Micro-Texturing for			
		Engineering Applications', (Published Online)			
2021	Materials Today Communications,	Kumar, V., Verma, R., Kango, S., & Sharma, V. S. (2021). Recent			
	26, 101736	progresses and applications in Laser-based surface texturing systems.			
2021	Surface Topography: Metrology	Sharma, N., Verma, R., Sharma, S., & Kango, S. (2021). Qualitative			
	and Properties, 9(1)	potentials of surface textures and coatings in the performance of			
		fluid-film bearings: A critical review.			

2021	Proceedings of the Institution of	Singh, S., Kango, S., Sharma, N., & Verma, R. (2021). Recent advances
2021	Mechanical Engineers, Part J:	in the mechanical durability of superamphiphobic surfaces: A review.
	Journal of Engineering Tribology.	235(11), 2474–2499
2021	Arabian Journal for Science and	Minhas, N., Thakur, A., Mehlwal, S., Verma, R., Sharma, V. S., &
2021	Engineering, 46, 11671–11685	Sharma, V. Multi-variable Optimization of the Shot Blasting of
	(2021).	Additively Manufactured AlSi10Mg Plates for Surface Roughness Using
	(2021).	Response Surface Methodology
2020	Transactions of The Indian	Kumar, V., Verma, R., Kango, S., Development of super-hydrophobic
2020	Institute of Metals	surfaces on micro-textured WC-10Co-4Cr coated ASTM A479 steel, 73,
	Institute of Metals	1015–1026.
2020	Silicon 45, 9449-9470	Khatkar, S. K., Verma, R., Kharb, S. S., Thakur, A., & Sharma, R.
		Optimization and Effect of Reinforcements on the Sliding Wear Behavior
		of Self-Lubricating AZ91D-SiC-Gr Hybrid Composites.
2020	Arabian Journal for Science and	Naseem, M., Verma, R., & Kango, S. Thermo-mechanical Evaluation of
	Engineering, 45(11), 9449-9470	Slurry-Sprayed Multi-layered Coatings.
2019	Arabian Journal for Science and	Rajeev Verma, Suman Kant, and Narendra Mohan Suri. "Process
	Engineering, 44.2	Optimization of Slurry Spray Technique Through Multi-attribute Utility
		Function."
2019	International Journal of	Das, D., Verma, R., & Pathak, V. K., Thermo-mechanical evaluation of
	Computational Materials Science	plasma sprayed YSZ-based multi-layered thermal barrier coatings
	and Surface Engineering, 8(3-4),	
	269-289	
2019	International Journal of Surface	Das, Debasish, Rajeev Verma, and Vipul Pathak. "Plasma Sprayed
	Engineering and Interdisciplinary	WC-12% Co-Coatings for TBC Applications on Diesel Engine Piston."
	Materials Science, 7.1: 37-54	
2019	Arabian Journal for Science and	Verma, Rajeev, Jagjit Singh Randhawa, Suman Kant, and Narendra
	Engineering, 44:5897–5919	Mohan Suri, "Characterization studies of slurry sprayed mullite-nickel
		coatings on ASTM 1018 steel."
2016	Proc IMechE Part E: J Process	Rajeev Verma, Suman Kant, Narendra M Suri, Adhesion Strength
	Mechanical Engineering, ISBN:	optimization of slurry sprayed mullite-based coating using Taguchi
	0954-4089, 2016, Vol. 230(2), pp.	method
	87-96, DOI:	
2017	10.1177/0954408915595948	
2016	Journal of Thermal Spray	Rajeev Verma, Narendra Mohan Suri, and Suman Kant. "Parametric
	Technology 25.7 (2016):	Appraisal of Slurry-Sprayed Mullite Coatings for Coating Thickness."
	1289-1301 DOI:	
2015	10.1007/s11666-016-0437-1.	
2016	Materials and manufacturing	Rajeev Verma, Narendra Mohan Suri and Suman Kant, "Effect of
	processes, 32.4 (2016): 416-424	Parameters on Adhesion Strength for Slurry Spray Coating Technique",
	DOI:	
	10.1080/10426914.2016.1221090	

Conference Publications:

Year	Conference	Publication
2021	2nd International conference on 'The Congress on	Kundankumar Chauhan, Rajeev Verma, and Vijay
	Advances in Materials Science and Engineering	Kumar, Fabrication of highly Water-Repellent surface
	(CAMSE-2021)', organized by NIT Jalandhar and	on AISI 304 stainless steel substrate using
	Shobhit Deemed University, Saharnpur,	combination of laser surface texturing and candle
		soot, July 17-19, 2021

2019	7th International Conference on Advancements and	Kumar V., R Verma, Recent Progresses in
2017	Futuristic Trends in Mechanical and Materials	Super-Hydrophobicity and Micro-Texturing for
	Engineering; IIT Ropar, December 5-7, 2019.	Mitigating Problems in Engineering Applications: A
	Engineering, 117 Ropai, December 3-7, 2017.	Review'
2019	6th International Conference on Production and	Kumar V., and Verma, R., "Development of Durable
	Industrial Engineering (CPIE-2019;	Superhydrophobic Surface On Wc-Co-Cr Coated
	ISBN-13978-93-83893-09-6)	ASTM A988 Stainless Steel Substrate"
2019	6th International Conference on Production and	Muhammed Naseem, O., and Verma, R.,
	Industrial Engineering (CPIE-2019;	"Experimental Validation Of Thermal Conductivity
	ISBN-13978-93-83893-09-6), NIT-Jalandhar, June	On Composite Thermal Barrier Coating"
	8-10, 2019.	
2019	6th International Conference on Production and	Vipin P., Kant, S., Jawalkar, C.S., Verma, R.,
	Industrial Engineering (CPIE-2019;	"Application Of Artificial Neural Network For
	ISBN-13978-93-83893-09-6)	Modeling Surface Roughness In Machining Process-
		A Review",
2019	7th International Conference on Advancements and	Kumar V., R Verma, "Recent Progresses in
	Futuristic Trends in Mechanical and Materials	Super-Hydrophobicity and Micro-Texturing for
	Engineering; IIT Ropar, December 5-7, 2019.	Mitigating Problems in Engineering Applications: A
		Review",
2018	3rd International Conference on Soft Computing:	S. K. Khatkar, R. Verma*, S. Kant, N. M. Suri,
	Theories and Applications (SoCTA - 2018),	"Optimization of wear behavior of AZ91D-SiC-Gr
	NIT-Jallandhar, December 21-23, 2018	hybrid composites using Taguchi experimental
		design"
2018	5th International Conference on Production and	Vipin, S. Kant, C. S. Jawalkar, R. Verma*, "Influence
	Industrial Engineering (CPIE-2018), Bangkok, 26-29	of Process Parameters on Surface Roughness Hole
	June 2018.	Diameter Error and Burr Height in Drilling of 3041
		Stainless Steel",
2016	National Conference on Statistical and Analytical	Rajeev Verma, Narendra Mohan Suri, Suman Kant,
	Methods in Production & Industrial Engineering	"Study of the Slurry Spray Coating Technique",
	(SAMPIE-2016), PEC Chandigarh, March 11-12,	
	2016, pp. 241-247.	
2016	National Conference on Enhancing National	Rajeev Verma, Narendra Mohan Suri, Suma Kant,
	Competitiveness: Role of Industrial Engineering and	"Coating Density Optimization of Slurry Sprayed
	Technology Management (NITIE-NCIETM-2016),	Mullite-based Coating with Perceived Confounding
	NITIE Mumbai, 17th -19th Nov., 2016, pp. 335-343	Variable",
	(ISBN 9789386256157).	
2016	4th International Conference on Production and	Rajeev Verma, Narendra Mohan Suri, Suri Kant,
	Industrial Engineering (CPIE-2016), NIT-Jallandhar,	"Slurry Spray Coating Technology with the Aid of
	19-21 December 2016. (ISBN-978-93-5267-403-9)	Sintering Additive
2014	4th International Conference on Advances in	Rajeev Verma, Suman Kant, Narendra Mohan Suri,
	Engineering and Manufacturing Technology	"Parametric Study of Slurry Sprayed Mullite Coatings
	(AMMT-14), Chitkara University, Punjab, October	Using Taguchi",
2015	3-4, 2014, pp. 263-271.	
2013	3rd International Conference on Production and	Rajeev Verma, Narendra Mohan Suri, "Effect of
	Industrial Engineering (CPIE-2013, ISBN	process parameters of Gas Metal Arc Welding on
	978-81-920453-1-3), NIT-Jalandhar, 29-31 March	temperature in Heat Affected Zone,"
001-	2013, pp. 283-287	
2013	3rd International Conference on Production and	Rajeev Verma, Narendra Mohan Suri, "Finite Element
	Industrial Engineering (CPIE-2013, ISBN	Modeling and measurement of temperature
	978-81-920453-1-3), NIT-Jalandhar, 29-31 March	distribution in Gas Metal Arc Welding,"
	2013, pp. 288-297.	

2013	International Conference on Smart Technologies for	Rajeev Verma, Narendra Mohan Suri, Suman Kant,
	Mechanical Engineering (STME-2013, ISBN:	"An overview of Functionally Graded Thermal
	978-93-83083-35-0), DTU-Delhi, 25-26 October	Barrier Coatings,"
	2013, pp. 690-697.	
2013	International Conference on Smart Technologies for	Rajeev Verma, Narendra Mohan Suri, Suman Kant,
	Mechanical Engineering (STME-2013, ISBN:	"Liquid Phase Sintering of mullite composites – A
	978-93-83083-35-0), DTU-Delhi, 25-26 October	Review,"
	2013, pp. 736-743.	

Book/Chapter Publications:

Type	Title	Publisher	Authors	ISBN/ISS	Year
				N No.	
Book	Smart Magnetorheological (MR)	Springer,	Vaishya R.,	https://doi.	2022
Chapter	Finishing Technology and Its	Singapore.	Sharma V.,	org/10.100	
	Applications.		Kumar V.,	7/978-3-03	
			Verma R.	0-73495-4	
				_46.	
Book	Application of Artificial Neural Network	Springer,	Pahuja V., Kant	https://doi.	2021
Chapter	for Modeling Surface Roughness in	Singapore.	S., Jawalkar C.S.,	org/10.100	
	Machining Process—A Review.		Verma R.	7/978-981-	
				15-4550-4	
				_38	
Book	Effect of Slip on Hydrodynamic Textured	Springer,	Nimbolkar, P. G.,	https://doi.	2021
Chapter	Parallel Plate Bearings.	Singapore.	Kango, S.,	org/10.100	
			Sharma, N., &	7/978-981-	
			Verma, R. (pp.	16-0942-8	
			381-391).	_37	
Book	Development of Durable	Springer,	Kumar V., and	Print	2020
Chapter	Superhydrophobic Surface On Wc-Co-Cr	Singapore	Verma, R.	ISBN:	
•	Coated ASTM A988 Stainless Steel			978-981-1	
	Substrate			5-4618-1,	
				Electronic	
				ISBN:	
				978-981-1	
				5-4619-8	
Book	Experimental Validation of Thermal	Springer,	Naseem O M.,	Print	2020
Chapter	Properties on Composite Thermal Barrier	Singapore	Verma R.	ISBN:	
•	Coating.			978-981-1	
				5-4618-1,	
				Electronic	
				ISBN:	
				978-981-1	
				5-4619-8	
Book	Optimization of Wear Behavior of	Springer,	Khatkar, S. K.,	Print	2020
Chapter	AZ91D-SiC-Gr Hybrid Composites Using	Singapore	Verma, R., Kant,	ISBN978-9	
т	Taguchi Experimental Design. In Soft	6F	S., & Suri, N. M.	81-15-075	
	Computing: Theories and Applications		(2020).	0-2	
	(pp. 1151-1163).		(
	DOIhttps://doi.org/10.1007/978-981-15-0				
	751-9_106				

Book	"Influence of Process Parameters on	In Manufacturing	Pahuja, Vipin,	ISBN	2019
Chapter	Surface Roughness Hole Diameter Error	Engineering.	Suman Kant,	978-981-1	
	and Burr Height in Drilling of 304L	Springer,	Chandrashekhar	3-6286-6	
	Stainless Steel." pp. 117-135.	Singapore	S. Jawalkar, and		
			Rajeev Verma.		
Book	Slurry Sprayed Mullite Coatings and	IGI Global, USA	Rajeev Verma,	ISSN:2327	2018
Chapter	Their Corrosion Performances. In		Narendra Mohan	-5448,	
	Production, Properties, and Applications		Suri, & Suman	EISSN:232	
	of High Temperature Coatings (pp.		Kant	7-5456	
	187-214).				

Research Projects:

Role	Project	Title	Funding	From	To	Amount	Status	Co-Investi
	Type		Agency					gator
P-I	Seed Grant	"Developmen	TEQIP	03.12.2018	05.6.2020	3.85 Lac.	Complete	Saurabh
	for	t and	Phase-III,				d	Kango.
	Innovative	Evaluation of	vide order					Nitin
	R&D	Durable	no.					Sharma,
	Project	Micro-Textur	NITJ/TEQI					Varun
		ed	P-III/7719					Sharma
		Superhydroph						
		obic Surfaces,						
PI	Industry	"Developmen	under	09.01.2019	1.8.2020	48,000/-	Complete	
	Oriented	t of	(TEQIP)				d	
	R&D	Superhydroph	Phase-III,					
	Project	obic coating	vide order					
		on W-Co-Cr	no.					
		and glass	NITJ/TEQI					
		substrate"	P-III/7776					

Events Organized:

Category	Type	Title	Venue	From	То	Designation
Conference	National	National Conference on	Punjab Engineering	11.03.2016	12.03.2018	Organizing
		Statistical and	College,			Secretary
		Analytical Methods in	Chandigarh			
		Production & Industrial				
		Engineering				
		(SAMPIE-2016)				
Conference	International	6th International	NIT-Jalandhar	08/06/2019	10/06/2019	Convener
		Conference on				
		Production and				
		Industrial Engineering				
		(CPIE-2019)				
Conference	International	International	NIT Jalandhar	09/10/2020	11/10/2020	Convener
		Conference on				
		'Industrial and				
		Manufacturing Systems				
		(CIMS - 2020)				

Summer	National	Self-Sponsored	Department of	June 1, 2019	July 13, 2019	Coordinator
Internship		Six-week's Summer	Industrial and			
Program		Internship Program on	Production			
		'CAD/CAM &	Engineering, NIT			
		Industrial Automation'	Jalandhar			
		using various				
		commercial software				
		packages				
STC	National	TEQIP sponsored STC	NIT Jalandhar	Dec 2, 2019	Dec 6, 2019	Convener
		on 'Advances in				
		Operations				
		Management for				
		Manufacturing				
		Systems'				
STC	National	TEQIP sponsored STC	NIT Jalandhar	January 2,	January 6,	Coordinator
		on 'Advancements in		2020	2020	
		Manufacturing and				
		Material Processing –				
		AMMP'				
STC	National	TEQIP sponsored STC	NIT Jalandhar	September 8,	September 12,	Coordinator
		on 'Contemporary		2020	2020	
		Material Technologies'				
STC	National	TEQIP sponsored STC	NIT Jalandhar	September 13,	September 17,	Coordinator
		on 'Computational &		2020	2020	
		Experimental Studies				
		on Failure of Materials'				

Professional Affiliations:

Designation	Organization
Life Member	Society of Materials and Mechanical Engineering
Member	Life Membership: The Institution of Engineers (India). Membership No: M-1750555

PhD Supervised:

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Vijay Kumar	Development of graphene premixed WC-Co-Cr	Ongoing		-
(19505213)	coatings utilizing laser surface texturing for			
	improved wear and corrosion behaviour			

PG Dissertation Guided:

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Kundankumar	Evaluation of HVOF Sprayed Graphene Mixed	Awarded	2021	Dr Rakesh Kumar
Baldevbhai	WC-10Co-4Cr Coating On Laser Textured AISI			
Chauhan	304 Stainless Steel			
(19205204)				
Harish Kumar	Development of Super-hydrophobic Surfaces on	Awarded	2020	Dr Rakesh Kumar
Bairwa	ASTM A420 Steel by Direct Laser Texturing			
Alla D V S	Estimation of lattice strain and Analysis of	Awarded	2020	Dr Kapil Kumar Goyal
Prasad	various parameters on WC-10Co-4Cr coated			
	AISI-420 substrate			

Vijay Kumar	Development of Superhydrophobic Surfaces	Awarded	2019	-
	WC-10Co-4Cr coated ASTM A479 Steel, 2019			
Muhammed	Thermo-mechanical Evaluation of Mullite based	Awarded	2019	-
Naseem. O	Multi-Layered Coatings			

Admin. Responsiblities:

Position Held	Organization	From	То
Hostel Waden	Dr B R Ambedkar National Institute of	31.1.19	Present
	Technology Jalandhar		
Coordinator - Institute Newsletter	Dr B R Ambedkar National Institute of	December 2018	Present
	Technology Jalandhar		
Coordinator - Institute Brochure	Dr B R Ambedkar National Institute of	December 2018	January 2020
	Technology Jalandhar		

Award and Honours:

Title	Activity	Given by	Year
'Outstanding Faculty In Industrial And	for the contribution and	by 7th Venus International	2021
Production Engineering'	achievement in the discipline	Science and Technology	
	of engineering	Awards – VISTA 2021, Venus	
		International Foundation,	
		India.	
Appreciation letter with cash award	Development of CAM	M/s Morgardshammar India	2010
	programme through	Limited, Meerut.	
	DELCAM 10.0		