2025 ICFG Plenary Meeting

14-17 September 2025

at the Royal Hainaut Spa and Resort Hotel - Valenciennes - France

	Day 1 – 14.09.25 – Sunday		
16:00	17:00	Registration	Royal Hainaut Hotel
16:00	18:00	Advisory Board Meeting	Room LA RHONELLE
19:00	22:00	Welcome Cocktail	AGORA

	Day 2 – 15.09.2025 – Monday			
08:00	09:00	Registration	Royal Hainaut Hotel	
09:00	10:00	Opening of 58th ICFG Plenary Meeting & Presentations	Room HAUTCLOCQ	
10:00	10:30	Coffee Break	AGORA	
10.20	12:30	Subgroup Meeting: Lubrication	Room LE XV	
10:30		Subgroup Meeting: Smart Data	Room HAUTCLOCQ	
12:30	13:30	Lunch Break	AGORA	
13:30	15:30	Subgroup Meeting: Computational Cold Forging	Room LE XV	
		Subgroup Meeting: Tool Life and Tool Quality	Room HAUTCLOCQ	
15:30	16:00	Coffee Break	AGORA	
16:00	17:00	Joined Session	Room HAUTCLOCQ	
19:00	22:00	Gala Dinner	La Chapelle	

Day 3 (Tour A) – 16.09.25 – Tuesday				
09	:00	Meeting at Royal Hainaut Hotel lobby	Pink Sticker Group	
09:00	12:30	Vallourec		
12:30	13:30	Lunch Break	Toyota Motor Manufacturing France	
13:30	16:30	Agrati		
17:00	19:30	Social Event – Brewery visit		
19:30	22:30	Dinner		
		Day 3 (Tour B) – 16.09.25 – Tuesday		
08	:30	Meeting at Royal Hainaut Hotel lobby	Green Sticker Group	
08:30	12:30	Hydro		
12:30	13:30	Lunch Break	Toyota Motor Manufacturing France	
13:30	16:30	Toyota Motor Manufacturing France		
17:00	19:30	Social Event – Brewery visit		
19:30	22:30	Dinner		
		Day 3 (Tour C) – 16.09.25 – Tuesday		
08	:30	Meeting at Royal Hainaut Hotel lobby	Yellow Sticker Group	
08:30	12:30	Toyota Motor Manufacturing France		
12:30	13:30	Lunch Break	Toyota Motor Manufacturing France	
13:30	16:30	Hydro		
17:00	19:30	Social Event – Brewery visit		
19:30	22:30	Dinner		



		Day 4 – 17.09.25 – Wednesday	
08:30	09:10	Keynote Talk Galling of aluminium - from the characterization to the numerical prediction Prof. Andre Dubois - LAMIH UMR CNRS 8201 – UPHF – France	
09:10	09:50	Keynote Talk Smart Forming: How AI can shape the future of cold forming Prof. Marion Merklein - Institute of Manufacturing Technology - Friedrich- Alexander-Universität - Germany	Room HAUTCLOCQ Session Chairman: Prof. Dubar
09:50	10:30	Keynote Talk Status and technical and environmental perspectives of cold forging Mr Frédéric Perdriset – Setforge - France	
10:30	11:00	Coffee Break	AGORA
11:00	11:40	Keynote Talk From AI-based Hybrid Twins in engineering operation to Generative AI empowering optimal design of materials, structures, processes and systems. Prof. Francisco Chinesta - Arts et Métiers & CNRS@CREATE - France & Singapore	Room HAUTCLOCQ
11:40	12:20	Keynote Talk Tribological Effect of Billet Pretreatment with Wet Blasting before Lubrication for Cold Forging Prof. Kazuhiko Kitamura - Nagoya Institute of Technology – Japan	Session Chairman: Prof. Dubar
12:20	13:30	Lunch	AGORA
13:00	14:40	General Assembly & ICFG Prizes	Room HAUTCLOCQ
14:40	15:00	Paper Presentation Fatigue performance of Ti6Al4V bolts improved by fillet rolling based on finite element analysis M. K. Razali - MFRC, Research and Development Center - Republic of Korea	Session Chairman: Prof. Yoshida
15:20	15:40	Coffee Break	AGORA
15:40	16:00	Paper Presentation Autonomous optimization of processing conditions for lubricants in hot forging via strongly-connected cyber physical system, Takumi Nakane - G-CADET, Gifu University - Japan	Room HAUTCLOCQ
16:00	16:20	Paper Presentation Innovative process chain for cold forging: Developing and validating a material model for deformation-induced martensite in metastable austenitic casted steel Nadine Lehnert - Fraunhofer Institute for Machine Tools and Forming Technology IWU - Germany	Session Chairman: Prof. Yoshida
16:20	16:40	Coffee Break	AGORA
16:40	17:00	Paper Presentation Data-driven acceleration of tool motion computation for continuous tube forming toward adaptive control Eiichi Ota - Toyota Central R&D Labs Japan	
17:00	17:20	Paper Presentation Study on the use of AI methods for inline quality monitoring of threaded screws Robert Meißner - fischerwerke GmbH & Co. KG - Germany	Room HAUTCLOCQ
17:20	17:40	Paper Presentation Comparison of Alternative Manufacturing Routes of Aluminium Bosses Used in Pressure Vessels Tanmoy Rakshit - TU Dortmund - Germany	Session Chairman: Prof. Herlan
17:40	18:00	Closing of the 58 th ICFG Plenary Meeting & Outlook ICFG 2026	



Subgroups Agenda – Morning sessions

Subgroup Meeting – Smart Data – 14.09.2025				
		Historical lookback:		
		from Industry of the future going towards AI Application		
		Sensors for Smart Data in Cold Forging		
		Beatiful Data in Cold Forging (J. Stahlmann)	Room HAUTCLOCQ	
11:00	13:00	Smart Data in Japan (Dr. Yamanaka)		
		Degree of Smart Data in Companies: Asia vs. Europe vs. America	Prof. Herlan	
		Discussion: The need of Smart Data in Cold Forging within companies		
		Extension of Smart data towards Sustainability		
		Conclusion remarks - booklet Smart Data in Cold Forging		

		Subgroup Meeting – Lubrication – 14.09.2025	
		Welcome and Introduction	
		Overview of Past Subgroup Activities	
		Tribological Systems and Their Challenges (Dr. Hollmann - Chemetall)	
		Tribology in Multi-Stage Processes	
		Background and Challenges	Room LE XV
		2. Multi-Stage Reference Process	
11:00	13:00	3. Lubricant Behaviour with Surface Expansion or Reduction (Prof. Bay and	Prof. Groche
		Prof. Nielsen)	&
		4. Results of Preliminary Investigations	Prof. Kitamura
		5. Multi-Stage Tribometers - Overview, Results and Discussion	
		6. Next Steps and Funding Options - Discussion	
		Summary and Closing	



Subgroups Agenda – Afternoon sessions

		Subgroup Meeting – Computational Cold Forging – 14.09.2025		
		Opening Remarks		
		Paper presentations		
		 i. Finite element modeling study for perpendicular-to-weldline crack prediction of tailor-welded blanks, Ms. Fuka Minami (Futaba Industrial Co., LTD.) ii. to de defined 		
		Collaborative activity – shearing simulation	Room LE XV	
14:00	16:00	16:00	Future activities	Prof. Hayakawa
		 i. Inter-laboratory material characterization for cold forging - with the objective to detect the scatter between different participants and the effects of this scatter in numerical results 	& Prof. Galdos	
		ii. Cold Forging Defects Encyclopedia - with the objective to classify the different defects that we observe in cold forging and by numerical simulation, detect when these defects appear (triaxiality and Lode parameter states that cause cracks)		
		Discussion and closing remarks		

	Subgroup Meeting – Tool Life & Tool Quality – 14.09.2025					
		Welcome and Introduction by Mr. Klaus Truetsch & Dr. Soo-Young Kim				
		Aims and review of the subgroup activities and status of current documentation				
14:00	16:00	Summary of the last Subgroup Meeting held in Busan Current topic: Optimisation of tool life and tool failure 1. How to use prestressing as a design parameter (Dr. Martin Killmann - STRECON)	Room HAUTCLOCQ Mr. Truetsch &			
		Punch tool life improvement (Mr. Klaus Truetsch) Recent progress in tool health care system for cold forging (Dr. Soo-Young Kim)	Dr. Yamanaka			
		Summary and discussion (colaboration with SG Smart Data)				

