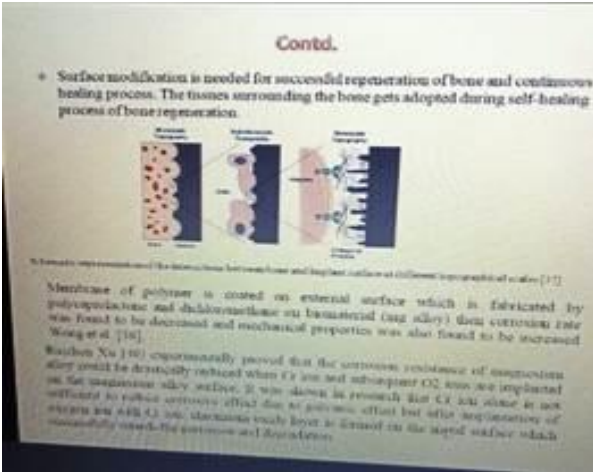



TECHNICAL ACTIVITY CARRIED OUT BY CENTRES / OVERSEAS CHAPTERS

Name of Centre / Overseas Chapter:	Meerut Local Centre		
Title of Activity:	Lecture Meeting (Insight in Applications, Manufacturing and Corrosion Behaviour of Magnesium and Its Alloys-A Review)		
Activity under Divisional Board (delete which are not applicable):	MC		
Date:	11-12-2022	Venue:	Webinar from own Place

(Insert photo)	(Insert photo)
	
Title of photo: Slide from lecture	Title of photo: Audience in Program

Brief Report (not exceeding 4000 characters)

A Webinar was organized on 11/12/2022 on google meet. Dr. Rupesh Chalisgaonkar, Professor, Mechanical Engineering Department KIET Group of Institutions, Ghaziabad (U.P.) was the speaker. Prof. (Dr.) K.L.A. Khan was the convener of the event. The session was started with a welcome note from Er. M.L. Jain Chairman Meerut Local Centre.

The speaker told the importance of Magnesium and its alloys to be specifically used as a biomaterial in human body. Magnesium and its alloy are preferable to other metallic non-biodegradable implants such as titanium stainless steel etc because of better bio degradability, leading to no further surgery and its associated cost.

Magnesium and its alloy show poor corrosion resistance in human body fluid (HBF) due to which it dissolves/corrodes rapidly in HBF solution. The corrosion/dissolution of Magnesium in HBF has the advantage in terms of no post-surgery after implantation but uncontrolled degradation needs various manipulation in processing of materials, controlled process condition in conventional manufacturing techniques and subsequently use of unconventional manufacturing processes. The various corrosion mechanisms have been reviewed and discussed. Magnesium and its alloys have been used in various applications such as aircraft, automotive, armaments, electronic, textile, and sports, medical and building industries.

In the end, Hony. Secretary Er. R.P. Agrawal delivered vote of thanks.