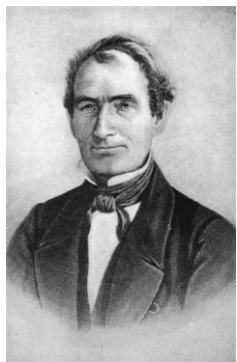


SCIENTIST OF THE MONTH:



ELIPHALET REMINGTON (1793-1861):

Eliphalet Remington made his first flintlock rifle in 1816, and the business he started is still making guns today.

Founded as a rifle-barrel-manufacturing firm in 1816 by Eliphalet Remington II—whose father operated a forge at Illion Gultch, New York—the company that would become E. Remington & Sons in 1865 (and later Remington U.M.C. [1910] and the Remington Arms Company[1934]) became one of leading commercial and military arms makers in the United States. In 1828 Remington built a factory beside the Erie Canal at the present site of Ilion, New York, where he and his son Philo pioneered many improvements in arms manufacture, including the first successful cast-steel drilled rifle barrel manufactured in the United States.

Though Remington died at the outbreak of the American Civil War (1861–65), the company he founded made thousands of arms for the Union, notably the “Zouave” percussion rifle and the New Model Army and Navy revolvers. Beginning in 1865–66, E. Remington & Sons was famous for its Joseph Rider-patented single-shot “rolling-block” breech-loading action, which was incorporated in more than 1.5 million military and commercial rifles, carbines, shotguns, and pistols that the company produced over the next four decades. Among its noted firearms were the Model 870 pump-action shotgun, the Model 700 bolt-action rifle. In existence for roughly two centuries, Remington is rightly known as “America’s oldest gunmaker.”

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DYNAMOS... THE FEW .THE PROUD

A NEWSLETTER OF MECHANICAL ENGINEERING DEPARTMENT

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EDITOR'S VOICE:

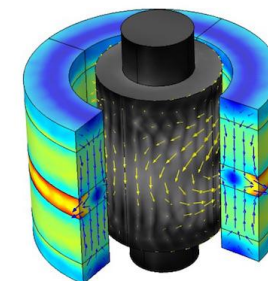
A **magnetic bearing** is a bearing that supports a load using magnetic levitation. Magnetic bearings support moving parts without physical contact. Magnetic bearings support the highest speeds of all kinds of bearing and have no maximum relative speed.

Passive magnetic bearings use permanent magnets and, therefore, do not require any input power but are difficult to design due to the limitations described by Earnshaw's theorem.

Techniques using diamagnetic materials are relatively undeveloped and strongly depend on material characteristics. As a result, most magnetic bearings are active magnetic bearings, using electromagnets which require continuous power input and an active control system to keep the load stable. In a combined design, permanent magnets are often used to carry the static load and the active magnetic bearing is used when the levitated object deviates from its optimum position. Magnetic bearings ..typically require a back-up bearing in the case of power or control system failure.



BEARING



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STUDENT ACTIVITIES:

The department of mechanical engineering had a reason to celebrate after the declaration of JNTUK university revaluation exam results. Heartly congratulations to all the toppers of III & II years whose performance is top notch. The effort and dedication of these students bagged ample of praise and applaud not only for the department of mechanical engineering but also to the entire institution. Let this considered as a source of inspiration to the entire students of the department who made things next to impossible come true. A big thumbs up to all the faculty members who guided the students in the righteous path for such a “TITANIC” success.

III YEAR TOPPERS:

S.NO	ROLL.NO	NAME	%
1	13JR1A0319	DESU SAIRAM	76.13
2	13JR1A0324	GADIPARTHI SRIKANTH	75.61
3	13JR1A0305	YALAMANCHALI HARANI	74.84
4	13JR1A0304	SHAIK NAGINA SULTANA	73.81
5	13JR1A0318	DASARI PRASSANA KUMAR	71.23

II YEAR TOPPERS:

S.NO	ROLL.NO	NAME	%
1	14JR1A0368	PATIBANDLA KALYAN RAM	85.10
2	14JR1A0367	PATHAN ASLAM KHAN	84.28
3	15JR5A0310	KOULURI KHALEED	83.45
4	14JR1A0375	PUVVADA RAMANJANEYULU	81.10
5	14JR1A03A3	YECHURI SAI AKHIL KUMAR	80.83

DEPARTMENTAL ACTIVITIES:

- With a mean of adding the flavor of advancement to theoretical methods department took a initiative step by purchasing CNC Trainer Lathe: MTAB Make: XLTURN with tooling package and work bench, Worth: 6,50,000/-.
- Followed by that conducted a three day training programme on XLTURN CNC machine operation & functioning for the following faculty (Mr..N.V.SAIRAM,Mr.S.RAJU, Mr.J.KOTESWARA RAO& Mr.A.SRINU lab technician) ,Dated on :18/10/16-20/10/16.



- Organized a workshop on Autodesk Fusion 360 involving fourth year students held on 20/10/2016.
- Inculcating the design standards & elaborating prior role of designing in the trending market, being the main motive behind this workshop.



- Mr. V.Srikumar, Mr. N.V. SaiRam, Mr. K. Giri Babu & Mr. M. Sai Chandrasekhar had attended a One week Faculty Development Programme on “Finite Element Analysis by Using ANSYS Software” at KHIT, Guntur from 24/10/16 to 29/10/16.