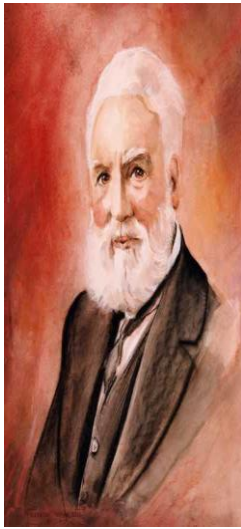


SCIENTIST OF THE MONTH:



ALEXANDER GRAHAM BELL :

Alexander Graham Bell (1847-1922), the Scottish-born American scientist best known as the inventor of the telephone, worked at a school for the deaf while attempting to invent a machine that would transmit sound by electricity. Bell was granted the first official patent for his telephone in March 1876, though he would later face years of legal challenges to his claim that he was its sole inventor, resulting in one of history's longest patent battles. Bell continued his scientific work for the rest of his life, and used his success and wealth to establish various research centers nationwide. Bell owes his immortality to his having been the first to design and patent a practical device for transmitting the human voice by means of an electric current. But Bell always described himself simply as a "teacher of the deaf," and his contributions in that field were of the first order.



He died in 1922 at his summer home on Cape Breton Island, Nova Scotia. People throughout North America were urged to refrain from making phone calls during his burial so that telephones would remain silent as a tribute.

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DYNAMOS... THE FEW . THE PROUD

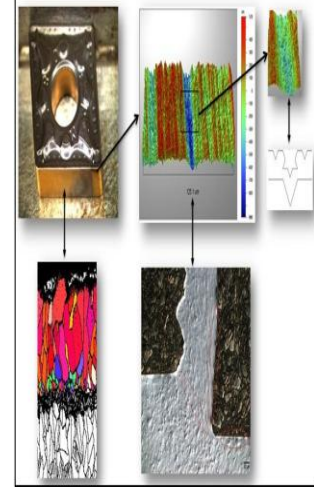
A NEWSLETTER OF MECHANICAL ENGINEERING DEPARTMENT

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EDITOR'S VOICE:

New coatings technologies are a key factor in securing the lifetime of cutting tools. This research focuses on the study of **tool wear of a textured alumina coating** and the relation to the workpiece. A multi-scale approach was used with TEM and 3D surface topography. Also a quick stop device was developed to study the chip and inclusion effect (see Fig.). A correlation was found between the wear surfaces and the hard workpiece inclusions. The research identified a nanocrystalline Al_2O_3 layer on the coating surface and a new abrasion wear model was proposed to explain the abrasion mechanism.

Bejjani Roland (Ph.D., MBA) received his Ph.D. in mechanical engineering from École Polytechnique Montréal (Canada) and an MBA degree from ESA, ESCP EAP (École supérieure de commerce de Paris-École européenne des affaires). He is currently working as Senior Researcher at Sandvik Coromant in cutting tools grade development.



Multi-scale study of initial tool wear on textured alumina coating, and the effect of inclusions in low-alloyed steel

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N. V. Sai Ram
N. Venkata Sai Ram
Assistant Professor

PLACEMENTS INFO:

In this academic adequate number of companies conducted their on-campus drives and bagged students of sound potential and caliber off delivering their best for the organization. Details follows:

ZOOMCAR:

| S.NO | ROLL NUMBER | NAME OF THE STUDENT |
|------|-------------|-----------------------------|
| 1 | 13JR1A0350 | M ADINARAYANA |
| 2 | 13JR1A0332 | J UDAY HARSHA VARDHAN VARMA |
| 3 | 14JR5A0301 | K ANIL KUMAR |
| 4 | 13JR1A0370 | P VAMSI KRISHNA |
| 5 | 13JR1A0368 | P THEEJESWAR |
| 6 | 13JR1A0394 | T BHARAT KUMAR |
| 7 | 13JR1A0363 | N VENKAT SANJAY |
| 8 | 13JR1A0399 | V HARSHA VARDHAN |
| 9 | 13JR1A0379 | SK KHAJA NAWAZ |
| 10 | 13JR1A0317 | D PRAVEEN KUMAR |
| 11 | 13JR1A0375 | R AKSHAY KUMAR REDDY |
| 12 | 13JR1A0338 | K BINDU KRISHNA |
| 13 | 13JR1A0313 | B PREMCHAND |
| 14 | 13JR1A0349 | M SIVA PRASAD |
| 15 | 13JR1A0366 | N B SHANMUKHA YASASWI |

INDO SHELL MOULD:

| S.NO | ROLL NUMBER | NAME OF THE STUDENT |
|------|-------------|---------------------|
| 1 | 13JR1A0369 | P VENU |
| 2 | 13JR1A0358 | N SIVA GOPI KRISHNA |
| 3 | 13JR1A0367 | N KIRAN KUMAR |
| 4 | 13JR1A0328 | G LOKESH |
| 5 | 14JR5A0303 | SK ABDUL SATTAR |
| 6 | 13JR1A0359 | N ANANTHA BABU |

PLACEMENTS INFO:

GEOINFOSYS

| S.NO | ROLL NUMBER | NAME OF THE STUDENT |
|------|-------------|----------------------|
| 1 | 13JR1A0393 | T SAMBA SIVA RAO |
| 2 | 13JR1A0385 | SK ZAKIR HUSSAIN |
| 3 | 13JR1A0390 | T JANARDHANA RAO |
| 4 | 13JR1A0324 | G SRIKANTH |
| 5 | 13JR1A0336 | K ARUN KUMAR |
| 6 | 13JR1A0341 | B KARTHIK |
| 7 | 13JR1A0365 | N ANIL KUMAR |
| 8 | 13JR1A0326 | G TULASI KUMAR |
| 9 | 13JR1A0373 | R VEERA VASANTHA RAO |
| 10 | 13JR1A0303 | N HEMALATHA |

INDUSTRIAL MINERAL COMPANY :

| S.NO | ROLL NUMBER | NAME OF THE STUDENT |
|------|-------------|---------------------|
| 1 | 13JR1A0318 | D PRASANNA KUMAR |
| 2 | 13JR1A0319 | D SAIRAM |
| 3 | 14JR5A0304 | T PARAMESWARA RAO |
| 4 | 13JR1A0387 | S RAJENDRA PRASAD |
| 5 | 13JR1A0308 | A BABU |
| 6 | 13JR1A03A1 | V AJESH BABU |
| 7 | 13JR1A03A7 | Y HARSHA VARDHAN |
| 8 | 13JR1A0372 | R LAKSHMAN |
| 9 | 13JR1A0398 | V NARENDRA |
| 10 | 13JR1A0309 | A SAI PAVAN |

PILOG

| S.NO | ROLL NUMBER | NAME OF THE STUDENT |
|------|-------------|-------------------------------|
| 1 | 13JR1A03A4 | VUNNAM SAI KIRAN |
| 2 | 13JR1A0346 | KUNDURU KALYAN SRINIVAS REDDY |
| 3 | 13JR1A0306 | ADIMULAM ARAVIND SAI |
| 4 | 13JR1A0314 | CHADDI SURYA PRATAP REDDY |
| 5 | 13JR1A03A2 | T VISHNU VARDHAN REDDY |
| 6 | 13JR1A0384 | SHAIK NAGUL MEERA |
| 7 | 13JR1A0376 | SAYED ZAHEER AHMED |
| 8 | 13JR1A0374 | RAVURI ASHOK KUMAR CHOWDARY |
| 9 | 13JR1A0310 | ANNAMNENI SAI VIVEK |
| 10 | 13JR1A0331 | GURRALA KRISHNA MOHAN |
| 11 | 13JR1A0322 | GADDAM VIVEK |
| 12 | 13JR1A0377 | SHAIK ANWAR |
| 13 | 13JR1A0304 | SHAIK NAGINA |