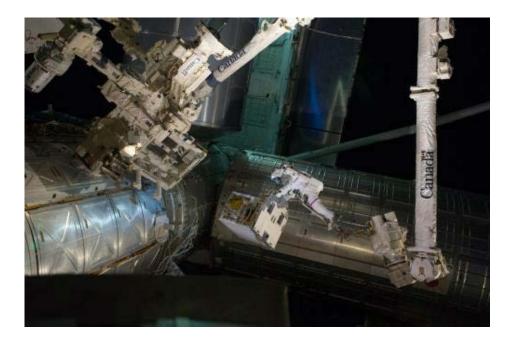
31 May 2012

Manufacturing In An Era of Servicing

Moderated by:

Al Tadros Space Systems/Loral





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Geostationary Satellites – Utopian to Reality

 * 1960 Courier
 ~ First active repeater satellites ~



1963 Syncom
 ~ First operational
 GEO ComSat ~



1945 Arthur C. Clarke
 ~ GEO Relay Satellites ~



* 1928 Herman Potočnik (Noordung)
 ~ GEO Radio Communication Satellites ~



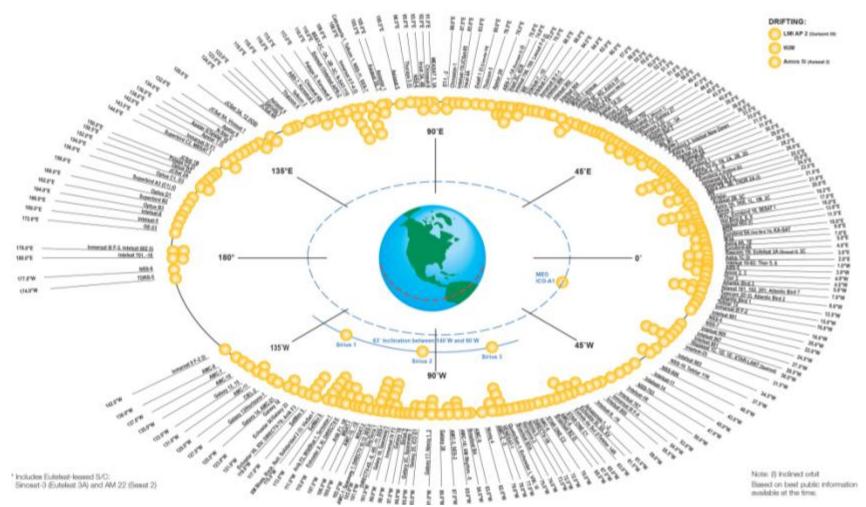
* 1923 Hermann Oberth
 ~ GEO Satellites ~



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297 GEO Commercial Communications Satellites

~100 Additional GEO Government Satellites



Courtesy of The Boeing Company, 31 December 2011 http://www.boeing.com/defense-space/space/bss/launch/980031_001.pdf

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71 GEO Commercial Satellites Under Construction



4

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Panelists

- John D. Schumacher
 VP, Space, EADS North America
- Barry Noakes
 Chief Engineer, Lockheed Martin Commercial Space Systems
- Richard A. Currier
 VP and CTO, Loral Space and Communications Inc.
- * Christopher Richmond SVP, Orbital Sciences Corp.
- Eddie Kato
 CEO, Thales Alenia Space North America, Inc.