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# **Design Engineering Technical Committee**

**Long Range Strategic Plan**

**4-11-00**

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# **DETC Long Range Strategic Plan**

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## **Contents**

- **Committee Charter & Mission Statement**
- **5 Year Objectives and Tactics**
- **5 Year Roadmap**
- **Go Forward Plan**

# **DETC Long Range Strategic Plan**

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## **Charter & Mission**

- **Charter:**

- **To Promote the Development and Dissemination of Design Technologies to Assist the Design Engineer in Creating and Defining Practical Aerospace Products**

- **Mission:**

- **Advance Design Engineering Technology and Process**
- **Promote Design Engineering to the Aerospace & Public Communities, and Support Education for Design Engineers**
- **Embellish and Enhance the Integrated Product Development Process to Support the Design Engineering Integration Functions**
- **Stimulate Knowledge to the Engineering Community on Contemporary Design Issues Through Technical Forums and Design Guide**

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## **Objectives/Tactics**

- **Improve/Cultivate Relationships With Other TC's**
  - TC Liaison Assignment (see list)
  - Participate With Other TC Activities
  - Engage in “Joint” Activities
- **Annually Publish Aerospace America Articles That Promote Noteworthy Design Engineering Activities**
  - Draw on Subcommittee and Liaison Activities (Paper Sessions, Panel Sessions) for Sources of Article Topics
  - Solicit Design Award Nominees Winners for Input?
- **Publish Aerospace Design Guide That is Recognized as a Valuable Tool for Design Engineers**
  - Update Guide to Stay In line with Industry Developments/Trends
  - Enhance Sales By Promoting Distribution Through Design Awards, Academic Contacts, and Section Chapters

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## **Objectives/Tactics (con't)**

- **Promote Fundamental Design Engineering Curriculum Within Educational Institutions**
  - **Strengthen Relationships With Committees That Influence Accreditation Process**
  - **Perform Survey to Assess Design Engineering Capabilities of Young Engineers**
  - **Stimulate Productive Dialogue In Design Engineering Community on Cost Aspects of Desig**
  - **Judge in Design and Build Competition and Engage in Liaison with Design Engineering**
  
- **“Recognize Design Engineers Who Have Made Outstanding Technical, Educational or Creative Achievements That Exemplifies the Quality and Elements of Design Engineering”**
  - **Establish an Annual Ad hoc Working Group Responsible for Generating a Minimum of Three Nominees Each Year**

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## **Objectives/Tactics (con't)**

- **Support the Genesis of a New TC That Brings the Principles of Design Engineering to The Emerging Field of Aerospace Architecture Design**
  - Paper/Panel Sessions That Contribute to The Evolution of Design Engineering of Aerospace Architecture
  - Attract Membership to Support TC Designation Status Within 5 Years
  - Support Overall Objectives of DETC
- **Embellish and Enhance The Integrated Product Development Process to Support the Design Engineering Integration Functions - “COLLABORATIVE ENGINEERING”**
  - Publish Annual Aerospace America Articles
  - Sponsor Paper and Panel Sessions Oriented Toward IPD
  - Address The Tools Processes and Peoples aspect of Design Integration

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Wright Bros. First Flight Celebration

	2000	2001	2002	2003	2004
<b>TC Liaison</b> <b>Simms</b>	SETC Academic Affairs, MDO DBF Comp., ICES	MDO SETC Academic Affairs, ICES DBF Comp.	SETC Academic Affairs, ICES DBF Comp.	SETC Academic Affairs, ICES DBF Comp.	SETC Academic Affairs, ICES DBF Comp.
<b>AA Article</b> <b>Hintz</b>	Draft Article	Article Published, Bi Annual Articles, Draft Article	Article Published, Draft Article	Article Published, Draft Article	Article Published, Draft Article
<b>Guide</b> <b>Dauwalter</b>		Complete 4th Edition Update	Reprint, 4th Edition Update, 5th Ed First Draft Complete	5th Ed Final Draft Complete, Draft to AIAA, Publish 5th Edition	
<b>Education</b> <b>Bauman</b>	Support Panel Sessio, Draft Article, Article Published	Compose survey update, Conduct Survey	Abstract on Survey for Reno	Present Paper on Results	
<b>Award</b> <b>Young</b>	Sel. Made, Award Presentatio, Nom. Due	Sel. Made, Award Presentatio, Nom. Due	Sel. Made, Award Presentatio, Nom. Due	Sel. Made, Award Presentatio, Nom. Due	Sel. Made, Award Presentatio, Nom. Due
<b>Architecture</b> <b>Cohen</b>	Plan Paper Sessio, ICES	Paper Sessio, ICES, Draft Article	TC Formalized, ICES		
<b>IPD</b> <b>Hintz</b>	Paper Sessio, Plan Next	Plan Next, Paper Sessio	Plan Next, Panel Sessio	Plan Next, Paper Sessio	Panel Sessio
<b>Events</b>	Reno, SDM, Space	Reno, SDM, Space	Reno, SDM, Space	Reno, SDM, Space	Reno, SDM, Space

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	2000			2001			2002			2003			2004		
<b>Brochure</b> <b>Heal</b>	First Draft ▲		Final ▤	Copies for Distribution ◇			Semi Annual Update ▤					Semi Annual Update ▤			
<b>Section Lia.</b> <b>Young</b>		Prototype Newsletter Input ◇		Mail to Sections ◇	Local Section to Attend DETC ▤	▤	Local Section to Attend DETC ▤	▤	▤	Local Section to Attend DETC ▤	▤	▤	Local Section to Attend DETC ▤	▤	
<b>Space Conf</b> <b>Heal</b>			Space Conf ▤		Space Conf ▤			Space Conf ▤							
<b>Newsletter</b> <b>Simms</b>		Final Draft ▤		Publish ▤			Annual Update ▤			Annual Update ▤			Annual Update ▤		
<b>Annual TC Report</b>	Interim ◇	Interim ◇	Yr End ▤	Interim ◇	Interim ◇	Yr End ▤	Interim ◇	Interim ◇	Yr End ▤	Interim ◇	Interim ◇	Yr End ▤	Interim ◇	Interim ◇	Yr End ▤
<b>Events</b>	▲ Reno	▲ SDM	▤ Space	▤ Reno	▤ SDM	▤ Space	▤ Reno	▤ SDM	▤ Space	▤ Reno	▤ SDM	▤ Space	▤ Reno	▤ SDM	▤ Space