IVTT ROADMAP

- There was an initial effort by the Steering Committee to draft vision and mission statements for the IVTT:
  - **Vision Statement:** To be the international champion for the transformational technology needed to develop and use intelligent vehicles for military and civil applications.
  - **Mission Statement:** To serve as a central knowledge base for intelligent vehicle technology; to provide forums for the transfer of technology between military and civil developers and users; and to advocate and facilitate the technological and economical feasibility of intelligent vehicles.
  - It was the consensus of the committee that the IVTT process be proactive, transparent, and accessible to a spectrum of participants.

The Cyclone, a 1959 show car, had a crash avoidance system. Radar-sensing technology provided the driver with information on an object ahead, including distance to the object and stopping distance. When a sensor in the console detected rain, it automatically put up the one-piece bubble top.
A key forum and core mechanism for technology transfer and the dissemination of knowledge about intelligent vehicles will be a website to be hosted by ...............  

The committee suggested some of the functions and contents of the website, including:

- Background (e.g., definitions and descriptions of intelligent vehicles)
- Vision and mission statements
- Glossary of terms/acronyms
- Technology white papers, overviews, and reviews
- Relevant government programs (information and links)
IVTT ROADMAP

➢ Website continued:
  ➢ Available technology from developers and vendors (government, academia, and industry)
  ➢ Technology that user needs and wants
  ➢ Technology gap analyses and descriptions of technology push and pull
  ➢ Matchmaking between those having technology and those needing technology
  ➢ Directory (contact information) of vendors, OEMs, R&D labs, and users
Website (continued)

- Information on standards, testing facilities, and metrics
- Newsletter (posted and emailed)
- Journal (digital and perhaps paper)
- Credit card processing ability
- Success stories
- Links to professional societies, tech transfer sites, government agencies, academia, corporations
- Different levels of access for different categories of members, participants, or website visitors
- Unrestricted public access (including foreign) to at least portions of the website
- Membership with fee and no fee
- Advertising (classified, banner, links)
- Survey tool for regular feedback from developers, users, and other stakeholders (including the public)
- Serve as broadcast medium for critical capabilities and technologies
- Issues to be considered: restrictions due to classified or proprietary information and export controls
The Steering Committee discussed establishing functionally-focused Working Groups for key activities and issues for IVTT, including:

- Programs (government, academia, and industry)
- Technology (e.g., systems, subsystems, and technology relevant to IVTT)
- Technology Transfer Forums (e.g., website, publications, conferences and workshops)
- Interfaces (e.g., with members, government and commercial organizations, professional societies, academia)
- Public Relations (e.g., press, media, public)
- Legal Issues (e.g., national security, intellectual property, liability)
The Steering Committee agreed to try to hold conferences, workshops, and Steering Committee meetings in conjunction with other relevant professional gatherings (as practical), such as:

- AUVSI
- IEEE
- SAE
- TRB (Transportation Research Board)

First Car: 1886 Benz Patent Motor Car (single-cylinder four-stroke engine)
IVTT ROADMAP

- The committee discussed creating an IVTT Roadmap to describe the projected state of the IVTT in six months, one, and three years.
- The committee would like to see the IVTT:
  - **Six months:** website initiated, a solid group of participants (in the form of a virtual, distributed organization).
  - **One year:** IVTT will be an incorporated organization with full and part-time personnel and a physical facility (perhaps at a government facility).
    - Technology transfer website will be highly developed, along with publications.
    - Some focused workshops will have been held on specialized topics.
    - An annual Conference will have been held.
- Discussion of desired three-year accomplishments was deferred until the next meeting.
IVTT ROADMAP

- IVTT issues: **Autonomobiles**
  - Technology readiness
  - Cost
  - Public acceptance/demand
  - Legal liability
  - Societal impacts

- IVTT Funding
  - Sponsorship
  - Membership (fee and/or no fee)
  - Advertising (classified, banner, links)

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**Moller M400 Skycar**
PLENARY DISCUSSION

- Technology transfer process and its issues
- OEM and technology vendor needs and wants
- State of intelligent vehicle technology
- Impact of autonomous vehicles on the military, automotive industry, and society
- Intelligent vehicle technology as a transformative/disruptive technology
- Strengths, weaknesses, opportunities, and threats (SWOT)
- IVTT Funding
  - Sponsorship
  - Membership (fee and/or no fee)
  - Advertising (classified, banner, links)