FLEX
DAMAGE-RESISTANT RUBBER CAR

William C. Patterson
B.S.Met.E., M.B.A., Ph.D.

FLEX Style
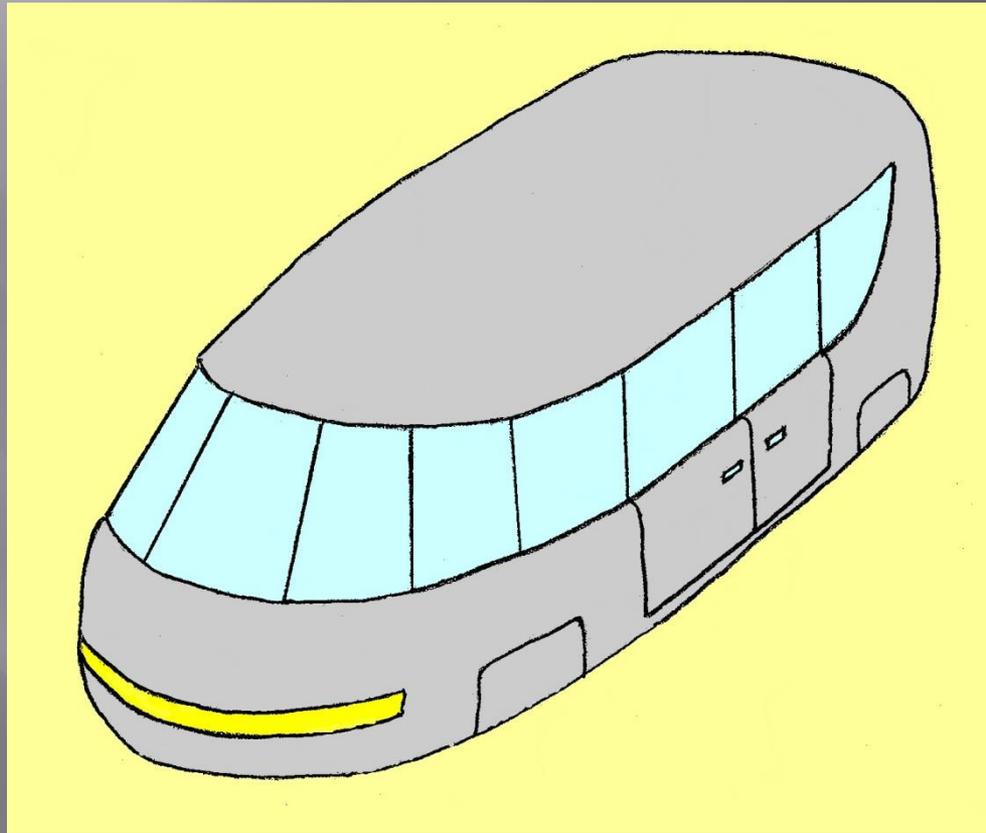
FLEX Advantage

- Rubber Exterior Resists Damage
  - Dent-Free Like Tires
  - Healable Scratches
  - Impact Energy Absorber
- Body Reacts to Impact Like A Bumper
- Entirely Natural, Recyclable Material
- Finish Range
  - Flat Black Tire Look
  - Shiny Gel Coat in Any Color

FLEX Advantage

- Bay Windowing
  - Flat Panes: Easy Fabrication, Inexpensive Replacement
- Skirted Wheels
  - Hidden Wheel = Low Cosmetic Maintenance
  - Flip-Up-Down Skirt to Access/Service Wheels
- Multi-Faceted Front Headlamp Array
 - Easy Repair/Replacement of Facets
  - Low Overall Expense

FLEX Body Panel

- Metal or Carbon Fiber Core
- Rubber Facia
- Tongue-In-Groove, Framing Assembly
- Bendable/Formable for Contour
- Form Structural Core Before or After Rubberizing
- Core Options: Sheet, Plate, Extrusion, Tube, Wire, Rod, Bar, Carbon Fiber, Wire Mesh, Expanded Metal
- Core Retains Shape, Provides Strength, Protects
- Rubber-On-Roll-Cage: Low Cost Safety
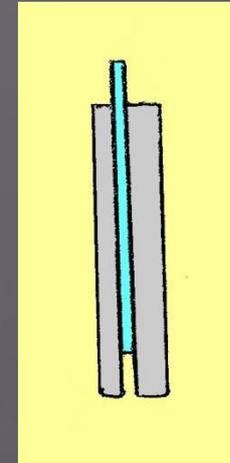
Prototype Body Panel

- Monolithic Black Rubber Inner
- Steel Grid "Safety Cage"
- Rubber Grid Inserts
  - Rubber Can Be Cast Around Grid
- White Rubber Exterior
- Trim: Black on White Rubber
- Trim: Gold on Black Rubber

FLEXBODY
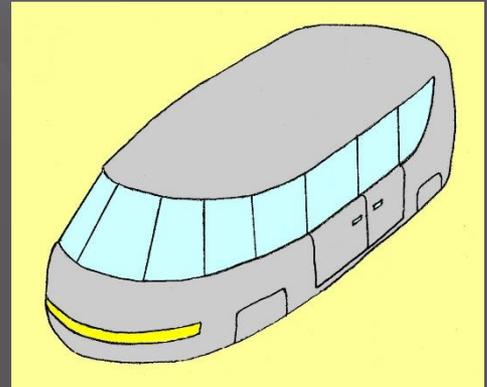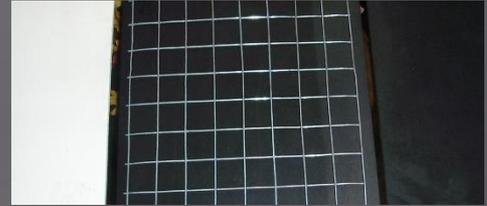
Novel FLEX Qualities

- BOUNCE Away from Impact

Novel FLEX Qualities

▫ PUSH/PULL Dents to Straighten

Novel FLEX Qualities

- HEAL Scrapes, Gouges, Scratches

Novel FLEX Qualities

- **MEMBRANE** Weather Seal

FLEX Car Summary

- Rubber Safety Skin for Automobiles that SEALS, SHIELDS, YIELDS, HEALS, and REBOUNDS like Human Skin

- Inexpensive Natural Material of Perpetual Supply for Better Vehicle AFFORDABILITY and ENVIRONMENTAL Harmony

- Rubber MOLDS to any shape, FINISHES to any appearance, LASTS Indefinitely

- Rubber is LIGHT WEIGHT auto construction for FUEL EFFICIENCY

FLEX Car

- Where the Rubber Meets the Road
  - . . . And Wins