

Call for nominations for the Pierre Bézier award

Sponsored by the **Solid Modeling Association (SMA)**: www.solidmodeling.org

With the approval of the family of the late Pierre Bézier, the Solid Modeling Association established in 2007 the **Pierre Bézier Award** for contributions in Solid, Geometric and Physical Modeling and for their Applications. Pierre Bézier was one of the founders of these fields. Beginning with his work on representing curves, and continuing through his work on one of the first CAD/CAM systems at Renault (UNISURF), Pierre Bézier led the transformation of design and manufacturing, through mathematics and computing tools, into computer aided design and three dimensional modeling. He made contributions to computer control, interactive free-form curve and surface design and 3D milling for manufacturing clay models and masters. Bézier's approach to research exemplifies how the problems from the real world can drive scientific inquiry and lead to engineering accomplishments. Solid, geometric and physical modeling have matured and have come a long way since the 1950s, resulting in a rich set of theories, mathematics and algorithms that define and manipulate representations of physical objects, their properties, and their associated abstractions. These representations are intimately tied to processes (such as simulation, design, manufacturing, and analysis) and application domains (automotive, aerospace, bio-medical, graphic arts, etc). These representations support the creation, exchange, simulation, visualization, animation, interrogation, and annotation of the digital models of the objects and their evolution.

Nomination Process and Timeline:

The Pierre Bézier Award is the most prestigious award of the Solid Modeling Association. The award may be given to an individual or group of individuals nominated for contributions of a technical and leadership nature made to solid, geometric or physical modeling and applications. The contributions should be of lasting and major technical importance. The Pierre Bézier Award is modeled after the Association of Computing Machinery's A.M. Turing Award, which also may be given to a single person for their lifetime achievements; or to a group of people for their particular result or accomplishments.

Individuals or teams can be nominated. All nominations received in the current year and top nominations retained from previous years (upon recommendation from previous years committees) will be rigorously reviewed by the Pierre Bézier Award jury. The individual awardee or team will be chosen by the Pierre Bézier Award Committee based on the strength of the nomination dossier and possibly the inputs of the external referees that the committee may contact. Joint nominations, submitted jointly by several nominators of international stature, are encouraged.

Nominations should be prepared using the Pierre Bézier Award **nomination form** (inserted below as plain text and also available in other formats from the SMA web site at < www.solidmodeling.org >) and submitted (as a PDF file with the nominee(s)'s last name(s) as file name) by email to **Jessica Zhang** (Chair of the SMA) at jessicaz@andrew.cmu.edu with a subject line of "**Bézier Award Nomination**". Email submissions should be sent from the email of one of the nominators. All other nominators should be cc'ed. All nominator should receive an acknowledgement from the Chair of the SMA within 72 hours of the nomination.

Questions: may be addressed to Jessica Zhang, Chair of the Solid Modeling Association, at jessicaz@andrew.cmu.edu.