

BATIK MOTIFS USING SURFER
from Inoweeek Junior Camp,
10-16 June 2017
Agrowisata Salib Putih ,Salatiga,
Indonesia

By :
By :
Dr. Hanna Arini Parhusip
Science Mathematics Faculty
Universitas Kristen Satya wacana
Indonesia

Preparation : using Surfer v.8



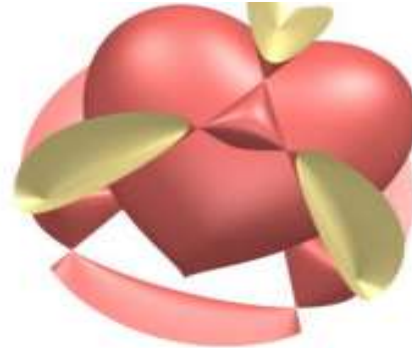
Students using algebraic Surfaces with Surfer for textile motifs



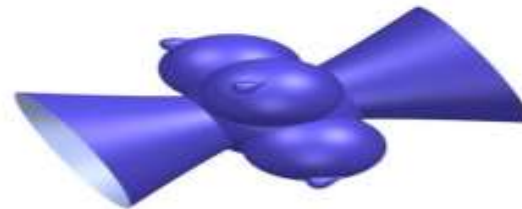
Some beautiful algebraic surfaces into motifs



$$((x^2+9/4*y^2+z^2-1)^3-x^2*z^3-9/80*y^2*z^3)*(d*x^2+(y-0.18)^2+z^2-2.44)*(c*x^2+(y-0.18)^2+z^2-2.5)*(b*x^2+(y-0.18)^2+z^2-2.6)*(a*x^2+(y-0.18)^2+z^2-2.7)=0$$



$$((x^2+y^2+z^2-(0.5+2*a)^2)^2-(3.0*((0.5+2*a)^2)-1.0)/(3.0-((0.5+2*a)^2))*(1-z-\sqrt{2}*x)*(1-z+\sqrt{2}*x)*(1+z+\sqrt{2}*y)*(1+z-\sqrt{2}*y))*((x^2+9/4*y^2+z^2-1)^3-x^2*z^3-9/80*y^2*z^3)=0$$



$$(x^2+y^2+z^2/(-3)-1)*(x^2+y^2+z^2-5)*((x+3*a)^2+y^2+z^2-3)*((x-3*a)^2+y^2+z^2-3)*(x^2+(y-3*a)^2+z^2-3)*(x^2+(y+3*a)^2+z^2-3)*((x+5*b)^2+y^2-z^3*(1-z))*((x-5*b)^2+y^2-z^3*(1-z))*(x^2+(y-5*b)^2-z^3*(1-z))*((x+5*b)^2+y^2-z^3*(1-z))=0.$$

Collection of surfaces for Batik motifs



Group photo after Surfer workshop



Producing Batik with Surfermotifs : preparation : draw motifs manually into textiles

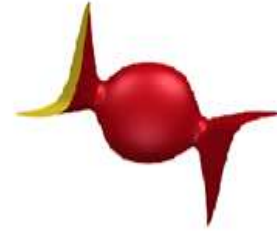




BATIK painting in Batik Surfer workshop



RELATED SURFER STYLE and ITS BATIK



Some students, mentors, and all batik in drying



CELEBRATING THE HARD WORK OF BATIK SURFER WORKSHOP

