



Presented by The San Francisco Bay Area Physicians' Study Group

# THE HEART'S ART

July 8 -10, 2011 at San Francisco Waldorf High School

KEYNOTE SPEAKER: FRANK CHESTER

## Lecture I: Geometry of Chestahedron

- 1) This lecture will show how Platonic forms are founded upon contraction and gravity, on the other hand the Chestahedron created a new path toward a geometry based upon expansion and levity.
- 2) Comparison of Centric and Peripheral forms
- 3) The first 13-faced form will be presented

## Lecture II: The Human Heart

The lecture presentation goal is in co-operation with rather than in competition with current myocardial research. The form of the Chestahedron provides an additional view and means of studying the heart from a geometric 3D model of morphology in addition to MRI, ECG, WAVEWIRE/FLOWWIRE, CSPAMM, and COLOR DOPPLER ULTRASOUND. This newly discovered form can now be used to help explain and understand the following:

- 1) Torsion reversal mechanism involvement with rapid filling and ejection from LV (left ventricle)
- 2) Myocardial Ventricular Band (apical loop development)
- 3) Diastolic heart failure architecture.
- 4) Nature of untwisting and filling dissociation in time.
- 5) Ventricular architecture and myofiber orientation.
- 6) Chiral asymmetry.
- 7) Systolic downward displacement of the base of the ventricles towards a motionless apex.
- 8) Initial systolic clockwise motion of the base and apex, and a change to an anti-clockwise motion of the base while the apex continues to move clockwise.

9) Results found for upwards motion of the ventricle base and an elongation of the ventricular chamber with both mitral and aortic valves closed.

10) Reduction of LV wall thickness towards the apex.

Frank will refer to 47 published research papers from CIRCULATION RESEARCH, Cardiovascular Research, JACC, Eur J Cardiothorac Surg, and NATURE MAGAZINES LTD. All papers and references will be available at the lecture.



## Vortex Generator Demonstration

Through water experiments using a vortex generator, Frank will demonstrate:

- 1) LV and RV (right ventricle) design and function.
- 2) LV indentation vortex.
- 3) 36 degree angle space orientation of the heart.
- 4) RV transient recirculation.
- 5) RV and LV vortex

A working model of an implosion mixer designed after the human heart will be on display.

## Workshop

In the geometry workshop, you will make and take home the Chestahedron.

## Questions on the Conference

David Gershan, MD at 415-775-3994 or  
Kelly Sutton, MD at 916-671-1780