

# CST MPS를 이용한 Full 3D Thermal & Mechanical 해석실습

일시 : 2017년 10월 17일(화)  
 장소 : 경기도 분당 "CST한국지사"  
 주최 : CST한국지사

## 교육 프로그램

시간	교육내용
10:00~11:00	<ul style="list-style-type: none"> <li>Introduction of CST products and Applications</li> </ul>
11:00~12:00	<ul style="list-style-type: none"> <li>Built-In Help Mechanisms</li> <li>Basic and Advanced Modeling                      Shortcut Icon, View Option, Primitives, Pick Point, Working Coordinate System, Boolean Operations, Basic Modeling, Curve Modeling Tools, Blend and Chamfer, Edges, Loft, Shell Solid or Thicken Sheet, Rotate and Extrude Operation, Transform, Operation, Slice by UV Plane, Align Object, Bend Sheet</li> </ul>
12:00~13:00	<ul style="list-style-type: none"> <li>Lunch</li> </ul>
13:00~14:00	<ul style="list-style-type: none"> <li>PCB Import to 3D Model from 2D Data                      EDA Import : Stack Up, Component and Parts Import, Customize Selection, Automatic Port Definition or Manual Ports Definition in 2D Layout Viewer, Automatic Mesh Settings for Hexahedral Mesh</li> </ul>
14:00~15:00	<ul style="list-style-type: none"> <li>Workflow Example 1 : Thermal Analysis by Chip on Full 3D PCB(CST MPS Thermal solver)                             <ul style="list-style-type: none"> <li>Modeling, Simulation Setting                                     <ul style="list-style-type: none"> <li>Definition of Sources : Temperature Source, Heat Source, Thermal Loss Distribution, Thermal Surface Properties</li> <li>Thermal Material Properties, Unit, Background Materials, Thermal Boundary and Symmetry Conditions, Thermal Stationary Solver, Thermal Transient Solver Setting</li> </ul> </li> <li>Result Overview                                     <ul style="list-style-type: none"> <li>Temperature, Heat Flow Density</li> </ul> </li> </ul> </li> </ul>
15:00~16:30	<ul style="list-style-type: none"> <li>Workflow Example 2 : Thermal and Mechanic co-simulation using Filter (CST MWS, CST MPS co-simulation)                             <ul style="list-style-type: none"> <li>Modeling, Simulation Setting                                     <ul style="list-style-type: none"> <li>CAD Import, Discrete Port, Waveguide Port, Field Monitor, Time Domain Solver or Frequency Domain Solver Setting</li> <li>Thermal Loss Calculation, Coupled Simulation with Thermal Solver from CST MPS</li> <li>Mechanic Simulation from temperature distribution</li> </ul> </li> <li>Result Overview                                     <ul style="list-style-type: none"> <li>Temperature, Heat Flow Density</li> <li>Mechanical Stresses, Strains, Displacements, Deformed mesh</li> <li>Parameter Sweep &amp; Optimizer</li> </ul> </li> </ul> </li> </ul>
16:30~17:00	<ul style="list-style-type: none"> <li>Introduction of EM + Thermal + Structural co-simulation (CST MWS, CST MPS co-simulation)                             <ul style="list-style-type: none"> <li>System Assembly and Modeling(SAM), Coupled Simulation with Thermal and Mechanic solver from CST MPS</li> <li>Field Import, Displacement Boundary, Traction Boundary</li> </ul> </li> <li>Meshing Basics</li> </ul>

상기 일정은 변경될 수 있습니다.

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