

# e-bulletin

Vaksis Vacuum Systems Bulletin  
Year: 1, No: 1, December 2010

## PVD AND CVD COATING SYSTEMS FOR VARIOUS APPLICATIONS

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■ 3 golden  
suggestions

■ new product  
**MIDAS<sup>®</sup>**  
COATING SYSTEMS

■ activities

- PVD: Physical Vapor Deposition
- CVD: Chemical Vapor Deposition

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## For Vacuum System Users

### 3 Golden Suggestions

1. When choosing a vacuum pump for your vacuum system, you should care pay more attention to the actual pumping speed of the pump at the usage environment particularly after making all connections (pipes, fittings, flanges, valves, etc.). Consequently, you should not care much about the "ultimate pumping speed" numbers specified in sales catalogues of the pump manufacturers.

2. You should not think that the pumped (removed) gases are the only gases, which fill volume of the vacuum chamber. To reach the pressure level you want, you should evaluate the properties (inner wall of the vacuum chamber, the materials which you will use for film deposition and their surface properties, the properties of the substrate and temperature) of the environment that you pump.

3. Do not forget that pumping the vacuum chamber, which is exposed to humid air for a long time in laboratory environment, takes a long time. For this reason, even if you finish your work with vacuum system, you should keep your system in vacuum until the next pumping.

We will continue giving golden suggestions in the next bulletins...



Dr. Baybars ORAL  
COMPANY MANAGER

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## new product

### MiDAS COATING SYSTEMS

Our MiDAS series systems are more professional and functional systems designed particularly for multiple users (i.e., systems to be used in central laboratories). Their chambers have prismatic shape (designed for individual customer) and involve the techniques and combinations below:

Magnetron Sputtering  
Thermal Evaporation  
e-Beam Evaporation  
OLED, PLED, OPV Evaporation or  
Different combinations of these techniques  
(Multi-Technique)

In our systems, process control is easier with Vaksis Automation Control (A&C) software.

It is possible to create a recipe for the processes, to save recipes and even to use the old recipes in new applications with this "special design" automation software.

The name "MiDAS COATING SYSTEMS" comes from the King Midas. The Legendary Phrygian King, Midas, has lived in the ancient Gordion within the borders of Ankara - Turkey. According to the Greek Mythology, King Midas had an ability of transforming materials of items he touched to gold. Midas owes its fame to the Phrygian culture's metal working ability.



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## activities

### 1. International Workshop on Cleanroom Training 21<sup>st</sup> June – 4<sup>th</sup> July 2010

“International Workshop on Cleanroom Training” was held with hosting of National Nanotechnology Research Center between 21<sup>st</sup> June - 4<sup>th</sup> July 2010. More than 40 participants attendend to this workshop. Out of the 40 participants attended to this workshop, the 30 were from developed countries and 10 from Turkey. On the July 2<sup>nd</sup>, Vaksis systems were introduced to the participants and tested the thin film deposition experiments with different techniques all day.

We thank the participants who attended the workshop and the experiments.

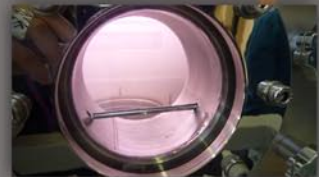
### 2. SolarTR-1 29-30<sup>th</sup> April 2010

Between 29-30<sup>th</sup> April, our company attended to the first Turkey Solar Energy Conference and Exhibition which was held at METU (Middle East Technical University) Culture and Congress Center.

PVD-handy series was exhibited in conference and participants showed great interest to the Vaksis products.

Before SolarTR-1 conference, some of the participants get information from our authorities about Vaksis GünER system which is being developed for METU-GUNAM by visiting Vaksis manufacturing site.

Vaksis GünER is a cluster type thin film coating system, which is designed for using photovoltaic solar cell production. Solar cells can be produced with coating TCO, metal, a-Si and/or  $\mu\text{-Si}$  on a glass substrates of size 25 x 25 x 0.5 cm.



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## activities

### 3. 17<sup>th</sup> Condensed Matter Physics Ankara Meeting, 5<sup>th</sup> December 2010

17<sup>th</sup> Traditional Condensed Matter Physics Ankara meeting was held at the Big Physic Lecture Hall in Ankara University Tandogan Campus. All day, our company met with the visitors at Vaksis booth as an organization sponsor.



### VAKSİS Team



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