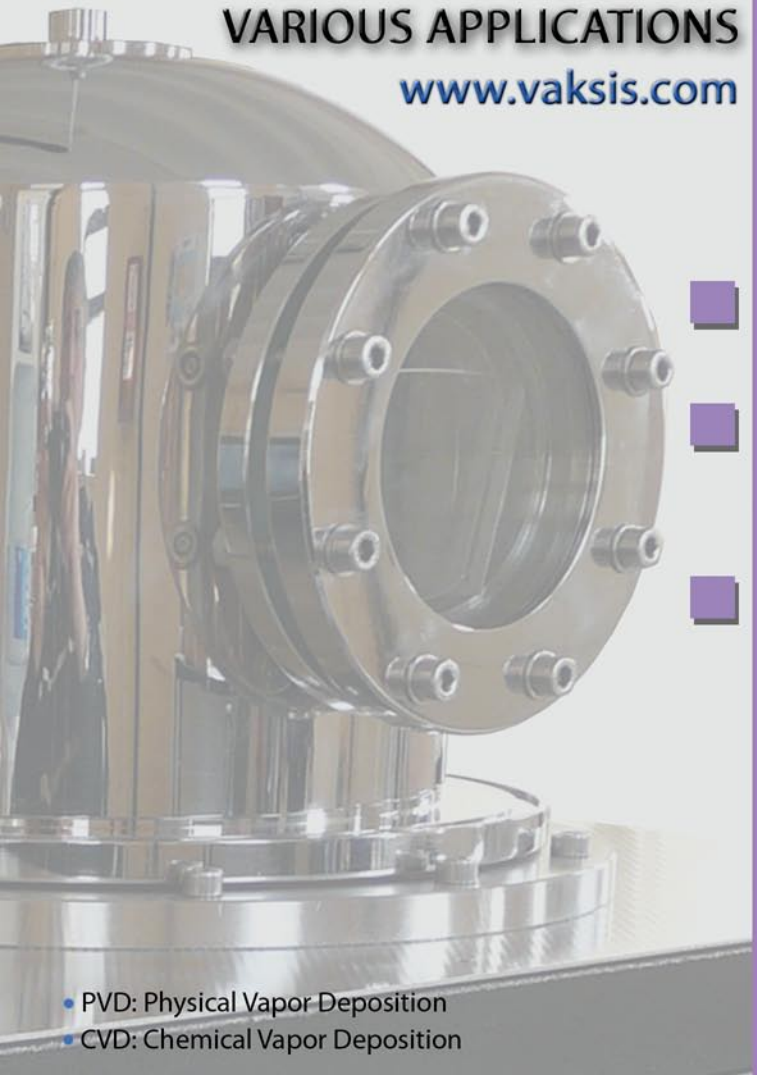
# e-bulletin

Vaksis Vacuum Systems Bulletin
Year: 2, No: 4, March 2012

## PVD AND CVD COATING SYTEMS FOR VARIOUS APPLICATIONS

www.vaksis.com



- 2 golden suggestions
- new product PVD-*handy*®/2T-sm
- activities

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

VAKSIS®
AR-GE VE MÜHENDİSLİK

# e-bulletin

Vaksis Vacuum Systems Bulletin
Year: 2, No: 4, March 2012

## For Vacuum Systems Users

### 2 golden suggestions!

1) Make sure that ground do not connect with the neutral at the electric line of the laboratory. Otherwise, residual current device (RCD) which will be used in your system (RCD) will not work. In the case of electric shock, due to the nonworking RCD, the user can damage like mortal wounds. Do not forget that, as a matter of legal doctrine, project manager and company executive are held responsible from this.

2) Do not forget that separate installation of the ground line of the laboratory is important in terms of safety and sensibility of the experiments. Make sure that the copper cables that used in ground line are monolithic. If there are copper part additions, you should pay attention being soldered of these parts or making a connection with electric terminals.

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

Dr. Baybars ORAL
COMPANY MANAGER

VAKSIS®
AR-GE VE MÜHENDİSLİK

# e-bulletin

Vaksis Vacuum Systems Bulletin
Year: 2, No: 4, March 2012

## new product

## PVD-*handy*®/2T-sm

*handy series*
*2T: 2 pieces of thermal evaporation source*
*sm: Small*

### Manual controlled, special design evaporation system with dual thermal evaporation sources for low budgets


Chrome (Cr) and gold (Au) coatings can be coated - in the same loading – on a glass or silicon substrates in this system which is designed for low budget. Thickness sensor device which is called QCM, measures coating thicknesses during the coating.

**CONTROL AND USING**

All electrical and electronic devices are controlled from their front panel. Chamber is lifted manually. Control of the thickness sensor and system pressure reading are made by the help of atom processor computer.
System includes the following specifications.

Technical specifications

**Pressure measurement:** <1x10$^{-5}$ Torr
(Base pressure: < 3x10$^{-6}$ Torr)
**High-speed pump:** 300l/s diffusion pump
**Mechanical pump:** 2,5 m$^3$/h mechanical pump
**Substrate size:** Ø40 mm
**Thickness measurement:** In-situ measurement with Quartz X-tal Oscillator (QCM)
**Deposition method:** With the parts of refractive metal heating
**Deposition mode :** Upward
**Number of sources** 2
**Loading:** From top
**Control:** Manual

VAKSİS®
AR-GE VE MÜHENDİSLİK

# e-bulletin

Vaksis Vacuum Systems Bulletin
Year: 2, No: 4, March 2012

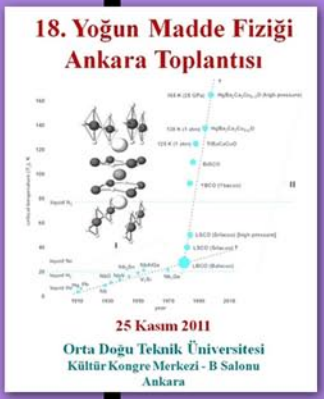
## activities

### 18th Condensed Matter Physics Ankara Meeting (25th November 2011)

Condensed Matter Physics Meeting is held from 1984. 18th meeting was held on the date of 25th November 2011 at METU Culture and Congress Center. Vaksis supported the activity as a sponsor and participant.

You can reach the details of the activity from the below address:

*http://www.physics.metu.edu.tr/ymf18/index.htm*





### Condensed Matter Physics Aegean Region Meeting (6th April 2012)

First of Aegean Region Condensed Matter Physics Meetings will be held at İzmir Institute of High Technology on the date of 6th April 2012. It is aimed that Aegean Region meetings to be held every year like Ankara meetings. Vaksis will support this activity as a sponsor and participant. You can visit our booth and get information about Vaksis products.

You can reach the details of the activity from the below address:

*http://ymf.iyte.edu.tr/genelbilgiler.html*


VAKSIS®
AR-GE VE MÜHENDİSLİK