

中国化学试剂工业协会第二次技术研讨会花絮

























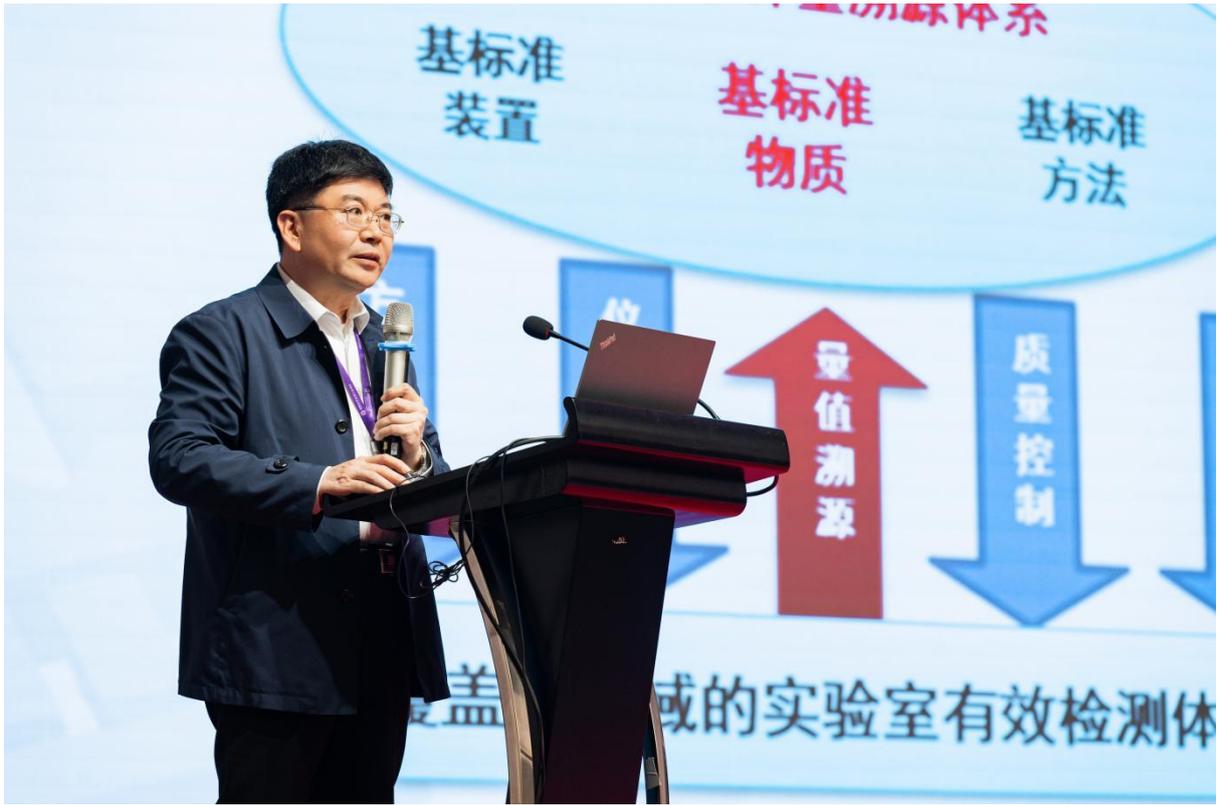


The image shows a man in a blue suit standing at a podium, pointing at a large projection screen displaying a periodic table of elements. The table contains numerical values for various elements. The logo '集萃光敏' (Ji Cui Guang Min) is visible in the top right corner of the screen.

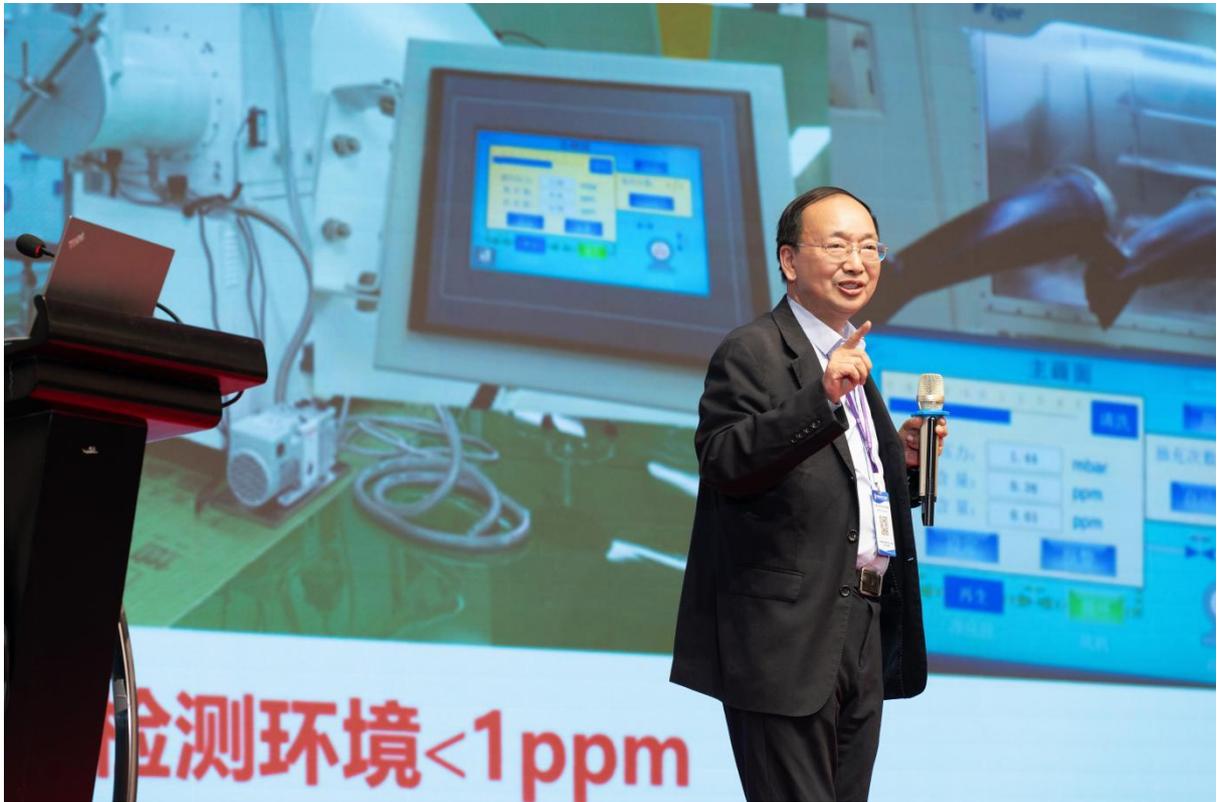
| Na | Mg | Al | K | Ca | V | Cr | Mn | Fe | Co | Ni | Cu | Zn | Ga | Ag | Cd | Sr |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|--------|--------|--------|
| <0.000 | <0.000 | <0.000 | 5.950 | 0.000 | <0.000 | <0.000 | <0.000 | <0.000 | 0.008 | 0.770 | 0.095 | <0.000 | <0.000 | <0.000 | <0.000 | <0.000 |
| 92.013 | 21.32 | <0.000 | 0.34 | <0.000 | <0.000 | <0.000 | <0.000 | <0.000 | 0.039 | 0.899 | 0.091 | <0.000 | <0.000 | <0.000 | <0.000 | 0.385 |
| <0.000 | <0.000 | <0.000 | <0.000 | <0.000 | <0.000 | <0.000 | <0.000 | <0.000 | <0.000 | <0.000 | 0.000 | <0.000 | <0.000 | <0.000 | <0.000 | 0.000 |
| 82.987 | 4.736 | <0.000 | 34.552 | <0.000 | <0.000 | <0.000 | <0.000 | 24.113 | 0.163 | 1.179 | 1.824 | 90.772 | 0.136 | 0.157 | 0.000 | 0.000 |











Chemical structures and reaction schemes are displayed on a screen, categorized into four groups:

- 化学发光材料 (Chemiluminescent materials):** Shows various aromatic and heterocyclic structures, including a central structure with a carbonyl group and a chlorine atom.
- 光致变色材料 (Photochromic materials):** Displays structures with nitro and methoxy groups, illustrating reversible color changes.
- 热致变色材料 (Thermochromic materials):** Shows a reversible reaction involving a quinone-like structure and a diene, triggered by heat.
- 热致变色材料 (Thermochromic materials):** Shows a structure with a carbonyl group and a nitrogen atom, possibly related to the thermochromic category.

Table of solvent properties:

| | | | |
|---------------------------------|--------------------|----------------------|-----|
| Benzene | 7.16 (1) | 118.7 (1), 1.39 (7) | 2.1 |
| Chloroform | 7.26 (1) | 128.4 (3) | 0.4 |
| DMSO | 2.50 (5) | 77.2 (3) | 1.6 |
| Methanol | 3.31 (5) | 39.5 (7) | 3.3 |
| CD ₂ Cl ₂ | 3.32 (3) | 49.1 (7) | 4.8 |
| | 8.74 (1), 7.58 (1) | 54.00 (5) | 1.5 |
| | 7.22 (1) | 150.3 (1), 135.9 (3) | 4.9 |
| Water (H ₂ O) | 4.8 | 123.9 (5) | 4.8 |

