

## **NIGHT OF SCIENCES 2017**



For each question, exactly one of the proposed answers is correct.

To find the right answer it is allowed to ask the scientists in the labs.

Prize winners will be drawn by lots among all those who give at least five right answers.

| How do microscopic, parallel wrinkles influence a red laser beam impacting them?<br>The resulting laser light can be seen at the projection area as |  |   |
|---|--|---|
| Ine   | e resulting taser light can be seen at the projection area as                    | <br>Station 1 – Building W                    |
|   | a green laser point  | canon r zanamg n                              |
|   | red concentric circles   |   |
| $\boxtimes$   | several red dots in a line   |   |
|   |  |   |
| At which pressure does the atmospheric pressure plasma jet work?  Station 4 - Building W  |  |   |
| X   | 1013.25 hPa  |   |
|   | 1500,12 Torr   |   |
|   | 1 mbar   |   |
|   |  |   |
| Wh  | at is the size of the pollen of a common daisy?                                  | Station 7 - Building L                        |
|   | 2 micrometers  |   |
| X   | 20 micrometers   |   |
|   | 200 micrometers  |   |
| \A/L  | ich wlackies westewiele one wermeelly wood in the OD weighing                    | anages FDM (fused                             |
| Which plastics materials are normally used in the 3D printing process FDM (fused deposition modeling)?  Station 9 - Building T                      |  |   |
|   | polycarbonate and polyamide 6 (PC and PA6)                                       |   |
|   | epoxy and polyester resins   |   |
| $\boxtimes$   | polylactide and acrylonitrile butadiene styrene copolymers (PL                   |   |
|   | potytactive and acrytolittille butadiene styrene copotymers (i L                 | .A and ABS)                                   |
|   | potytactide and acrytomers (i L  | A and ABS)                                    |
| Wh  | nich of these natural substances are polymers?                                   | A and ABS)  Station 12 - Building P           |
| Wh  |  |   |
|   | nich of these natural substances are polymers?                                   |   |
|   | uich of these natural substances are polymers?                                   |   |
|   | urea<br>clay<br>cellulose  | Station 12 - Building P                       |
|   | urea clay cellulose ron's beard/John's wort contains the natural dye hypericin.  | Station 12 - Building P                       |
| □ ⊠<br>Aaı  | urea clay cellulose ron's beard/John's wort contains the natural dye hypericin.  | Station 12 - Building P  Which colour does it |
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