

FROM ADAPTATION TO SCIENCE: DISCOVER, LEARN, EXPERIENCE

Official Science Orientation & Sustainability Initiative | 15-19 September 2026

□ **Host Institution:** BİLSEM Science and Art Center (Türkiye)

□ **International Partner:** BBGNight-TR (Horizon Europe MSCA)

□ **Municipal Partner:** Kayseri Science Center & Mobile Science Truck

□ **Event Dates:** 15-19 September 2026 (3 Main Sessions)

□ Executive Summary & Core Purpose

'From Adaptation to Science: Discover, Learn, Experience' is an integrated scientific orientation and sustainability festival designed for newly enrolled gifted and talented students at BİLSEM. Held in official alignment with **European Sustainable Development Week 2026 (18 Sept - 8 Oct)** and supported by the Horizon Europe MSCA **BBGNight-TR (European Researchers' Night Türkiye)** initiative, this 3-day program combines hands-on research, mobile science truck laboratories, interactive experiment shows, and citizen science projects. The event fosters early-stage environmental stewardship, scientific curiosity, and interdisciplinary problem-solving across 6 core sustainable science themes.

□ 6 Core Sustainable Science Themes

□ Climate & Sustainability

Interactive climate modeling, renewable energy demos, and 'Green Homeland' forest protection awareness.

□ Water & Oceans

Water quality testing, hydrodynamic experiments, marine life conservation, and water footprint analysis.

□ Biodiversity & Nature

Ecosystem mapping, flora/fauna observation, and 'Energy-Friendly Blue Green School' tescil drive.

□ AI & Future Tech

Mobile Science Truck robotics, AI ethics, hands-on algorithm coding, and futuristic innovation demos.

□ Citizen Science

Community-driven environmental data collection, local pollution monitoring, and collaborative research.

□ STEAM & Creativity

Interdisciplinary art-science projects, eco-design workshops, and Harezmi educational model challenges.

Event Schedule & Activity Blueprint

Date & Time	Event Focus & Key Activities	Target Audience & Format
Tuesday 15 Sept 2026 15:20 - 20:00	Session 1: Climate & Water Focus - Opening & BİLSEM Orientation Kayseri Science Center Interactive Experiment Show (17:00-18:30) - Mobile Science Truck Climate & Renewable Energy Workshops	3 Orientation Groups (Groups G-S1, G-S2, G-S3) 3 Lead Teachers & Researchers
Thursday 17 Sept 2026 15:20 - 20:00	Session 2: AI, Robotics & Citizen Science - Mobile Science Truck Robotics & AI Hands-on Ateliers BBGNight-TR Joint Researcher Meetup & Orientation Game (17:00-18:30) - Environmental Citizen Science Data Collection	3 Orientation Groups (Groups G-PE1, G-PE2, G-PE3) 3 Lead Teachers & Researchers
Saturday 19 Sept 2026 08:45 - 15:35	Session 3: Biodiversity, STEAM & Family Science Fair - Harezmi Interdisciplinary Project Ateliers - Nature, Biodiversity & Eco-Design Experiments Grand Interactive Closing & Family Science Festival (14:05-15:35)	4 Orientation Groups (Groups G-C1, G-C2, G-C3, G-C4) 4 Lead Teachers, Researchers & Families

UN Sustainable Development Goals (SDGs) Alignment

SDG 4: Quality Education	Ensuring inclusive, equitable quality education and fostering higher-order thinking skills (12 core competencies) for gifted learners.
SDG 13: Climate Action	Building early-age climate resilience, forest protection awareness ('Green Homeland'), and renewable energy literacy.
SDG 14 & 15: Life Below Water & Land	Promoting marine/water conservation, biodiversity mapping, and supporting the 'Energy-Friendly Blue Green School' initiative.
SDG 17: Partnerships for Goals	Fostering institutional collaboration between BİLSEM, Horizon Europe MSCA BBGNight-TR, and Kayseri Metropolitan Municipality.

Key Policy & Pedagogical Foundations

- 2025 Year of the Family Integration:** Active parental involvement through 'Family Education Journey' and 'Maarif Model Parent School' programs.
- 12 Core Competencies:** Problem solving, critical thinking, entrepreneurship, scientific research, and social responsibility.
- Process & Performance Evaluation:** Non-graded, holistic growth monitoring using observational rubrics and portfolio assessments.
- Zero Waste & Environmental Responsibility:** Clean usage and return of instructional resources under national sustainability guidelines.

