

Cover Story

5 World News

10 Spotlight

40
Classified

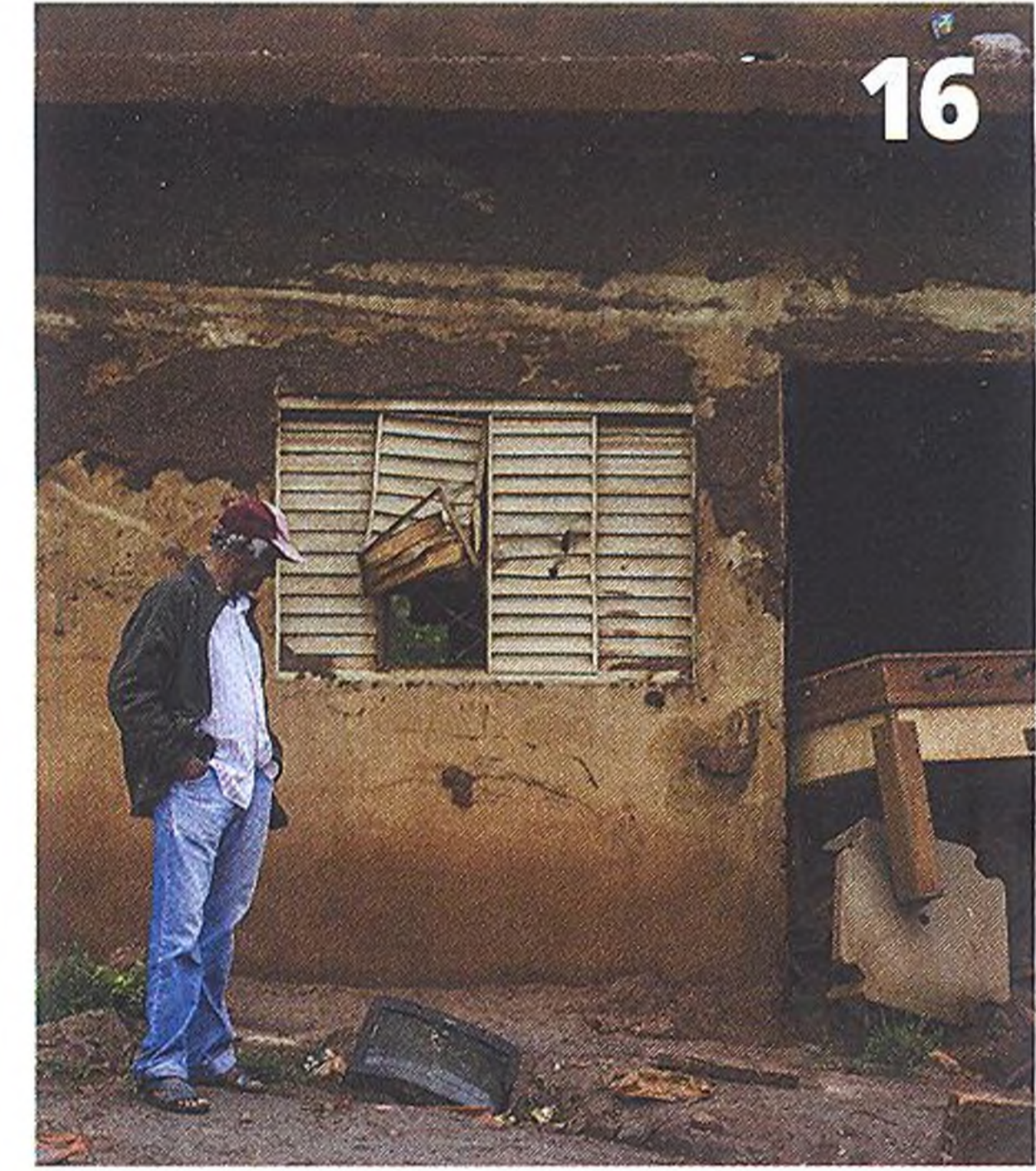
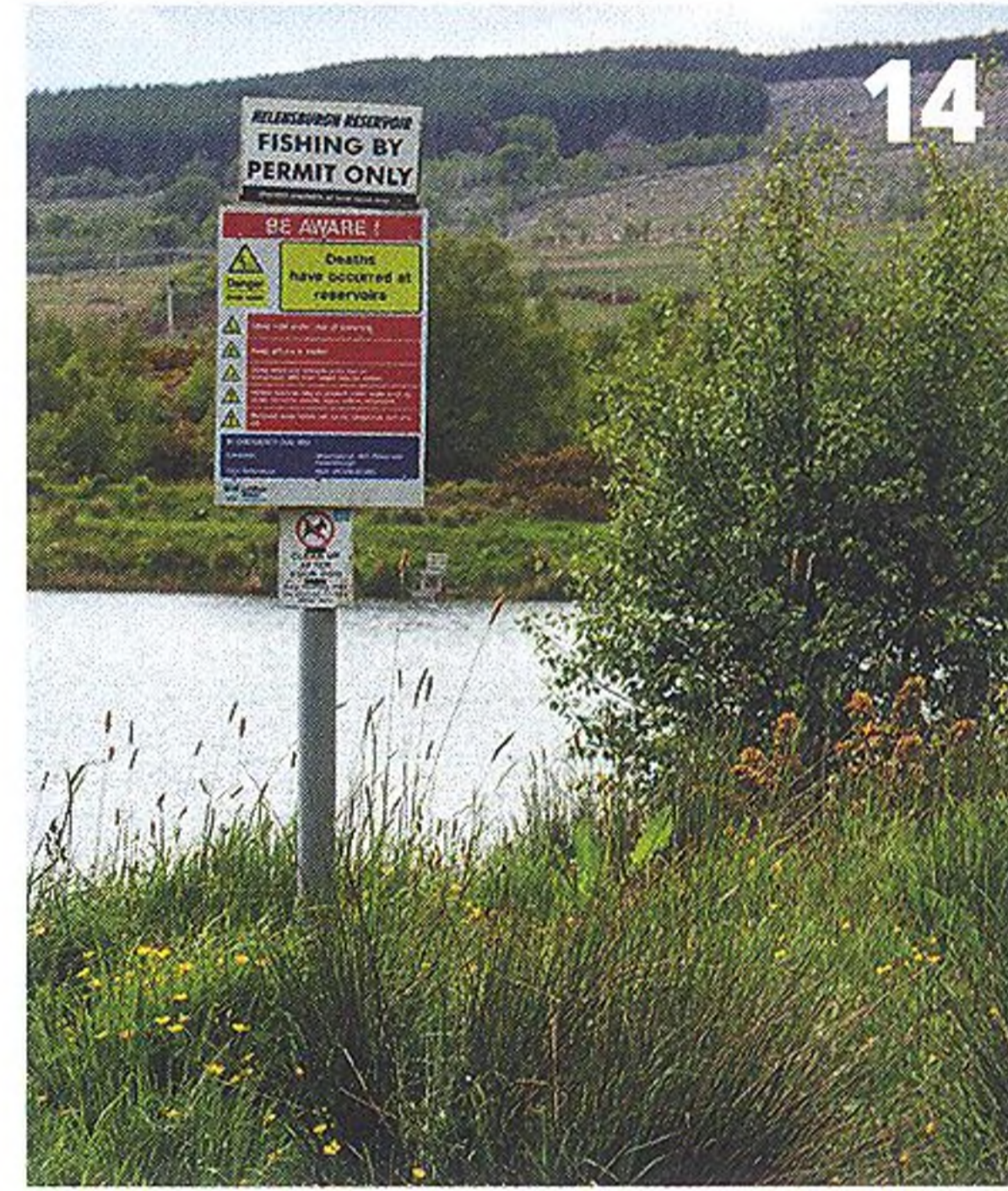
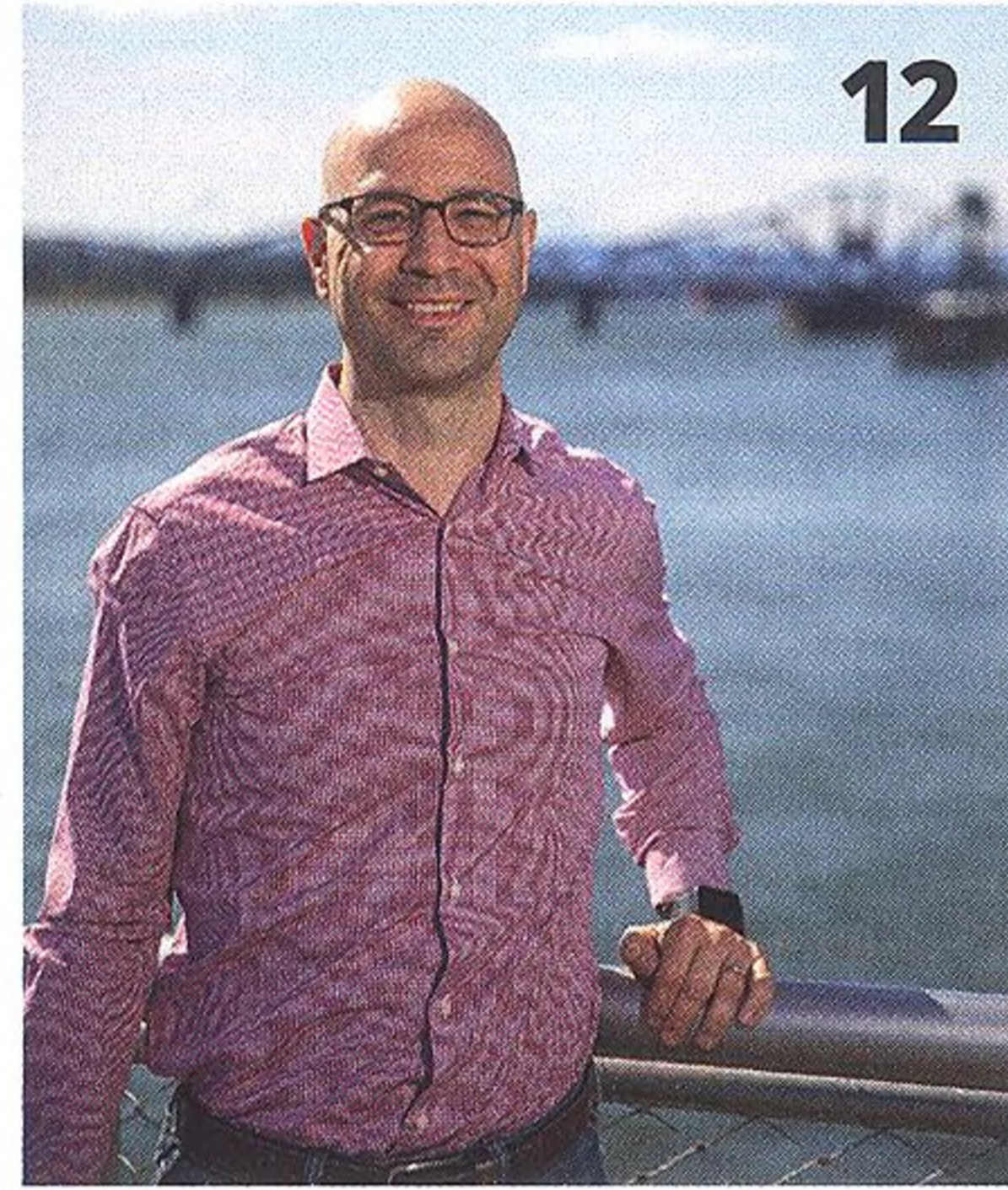
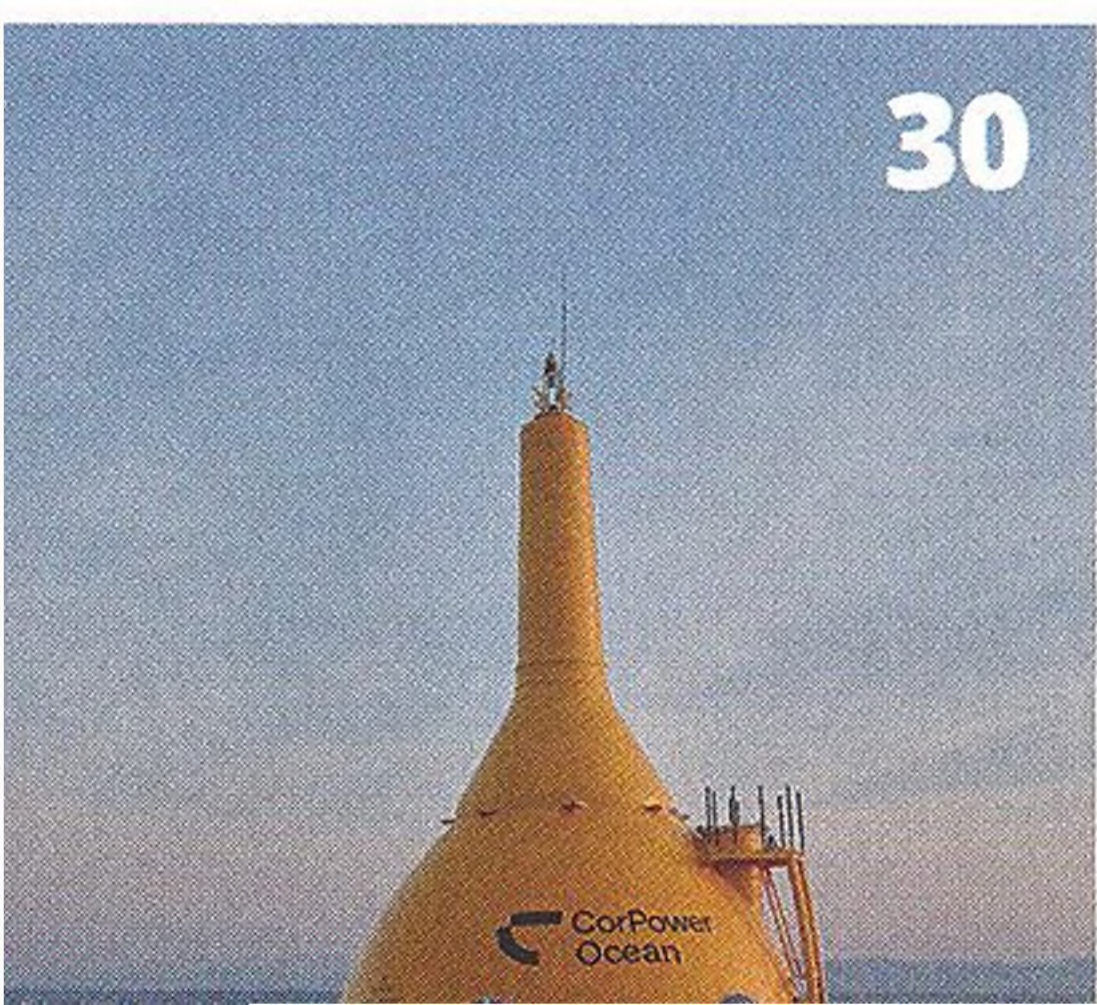
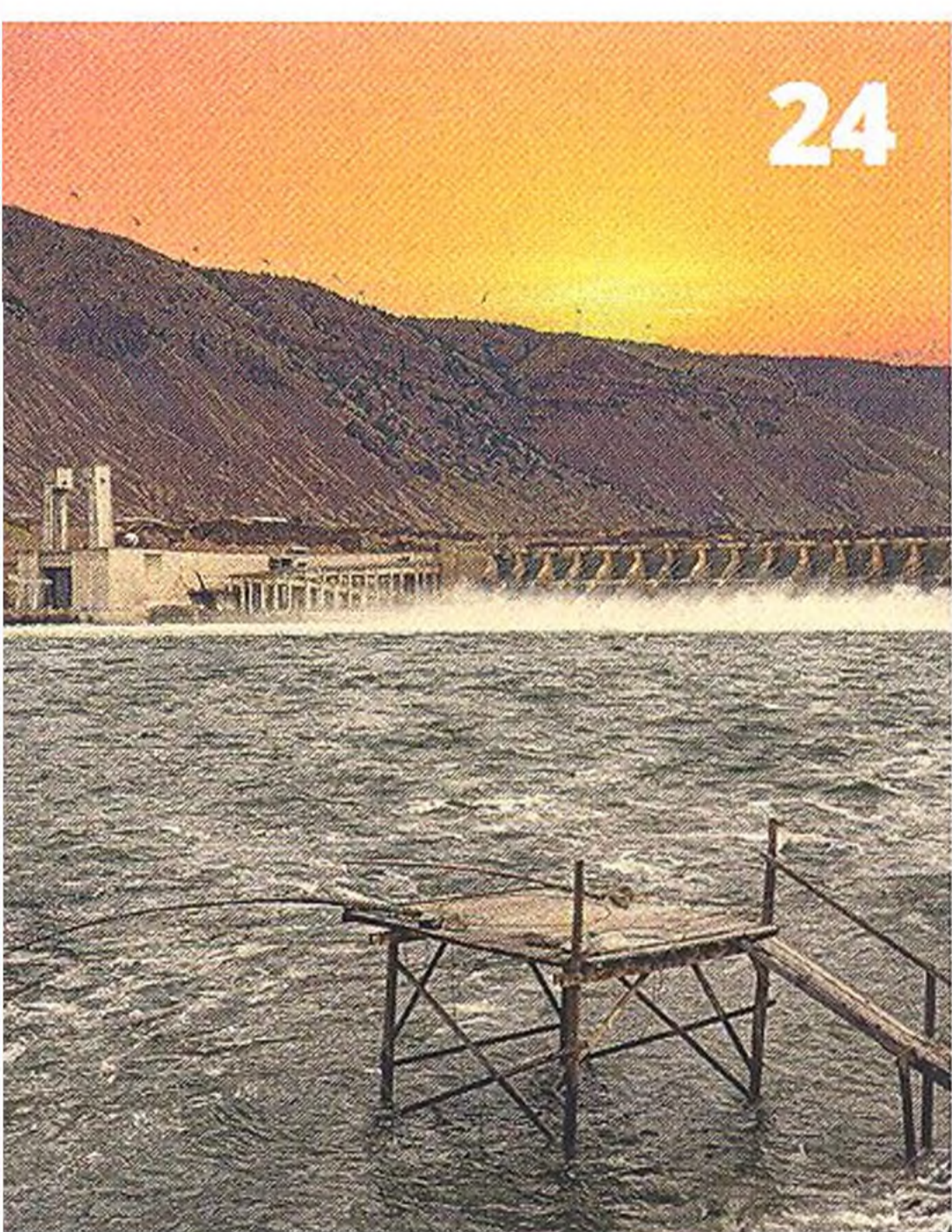
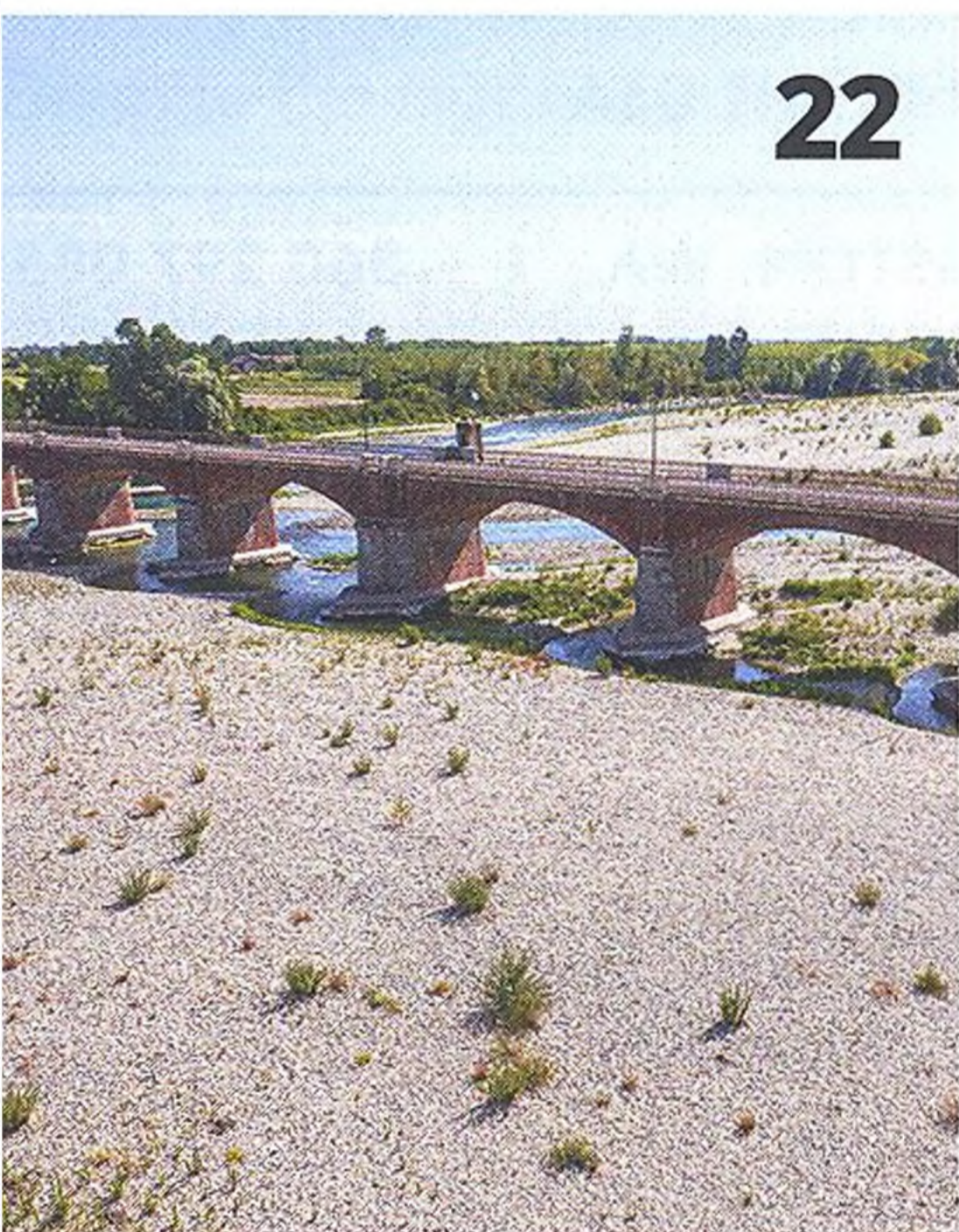
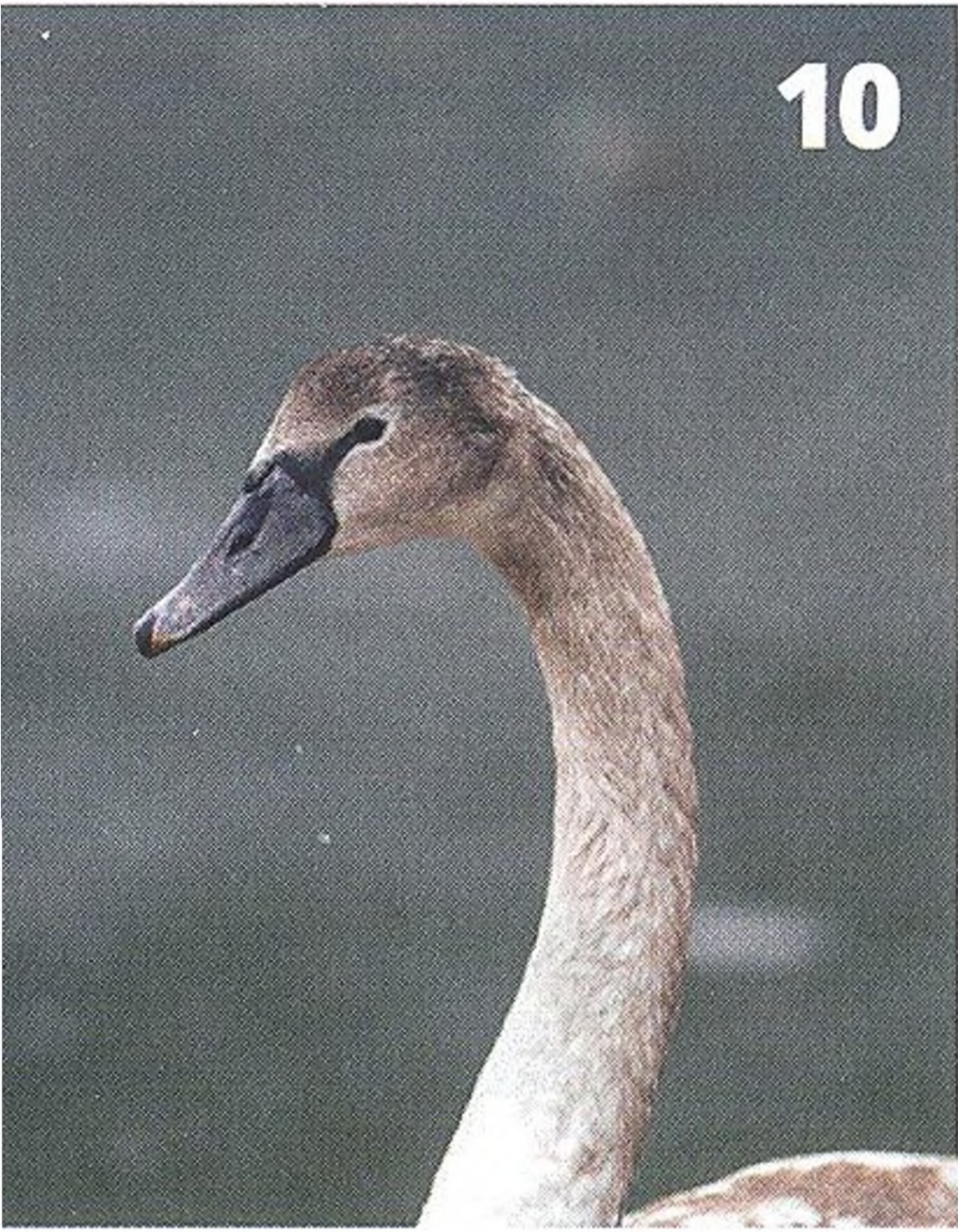
42
Contacts

Plastic concrete secant pile wall construction at the Priest Rapids dam on the Columbia River. Image courtesy of Stantec

XFLEX HYDRO unveils seven recommendations to enhance hydropower flexibility; USACE and USBR release joint report

Auroop R. Ganguly explains why dam and hydropower managers need to urgently account for the swan and butterfly effects.

features



Opinion

12 Ignoring Risks: A hydropower industry wake-up call

Kurt Miller suggests that despite recent successes, the sector is dangerously unaware of mounting risks, urging for more proactive advocacy

Lessons learned

14 Navigating the decision to discontinue

Learn from recent experiences and key lessons for managing downstream risks, environmental impacts, and legal implications in reservoir discontinuance process

16 Shedding new light on Brumadinho

Five years after the failure of the Brumadinho tailings dam in Brazil, researchers have uncovered the physical mechanism that may have triggered the incident

Digital twins

18 Double vision

The role of Digital twin technology in the hydro industry

Hydropower & water scarcity

22 Facing up to water fears

How changing water availability is beginning to affect worldwide hydropower production

Planning and projects

24 Project perspectives

US collaboration, the role of AI, Australian farm dams, Indonesian databases and Canadian watersheds

28 Rapid response to seismic risks

To address seismic risks at Priest Rapids Dam in the US, a downstream replacement RCC dam has been constructed

30 CorPower Ocean announces wave energy breakthrough

C4 Wave Energy Converter completes the first cycle of the ocean commissioning program at Agucadoura in northern Portugal

32 Deconstruction for revitalisation

KRRC gears up for the next phase of historic dam removal, marking significant progress towards revitalizing the Klamath River ecosystem and its native salmon populations

Iconic dams

36 Iconic structures

In the start of a new series of articles, IWP&DC asked members of the industry to share what they consider to be iconic dams and explain the reasoning behind their choices. Here we hear from Laura Monikowska, Henry-John Wright and Quentin Shaw, and Carrieann Stocks.