

AVIATION WEEK & SPACE TECHNOLOGY

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PARIS AIR SHOW '97

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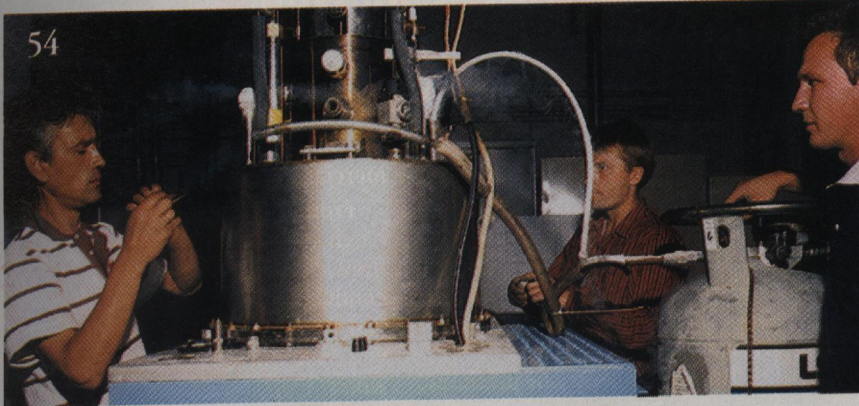


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About the Cover
 Antonov An-74TK combi, shown in the West for the first time at the Paris air show, reflects signs of a modest upturn in the Ukrainian and Russian commercial transport industries. The An-74T-200 version recently scored a sales success in Iran (see p. 27). Photo by Paul Brou.



PARIS AIR SHOW '97

Airbus fights back in U.S.-Europe rivalry
 Attacks Boeing on proposed merger and company's penchant for exclusive aircraft deals **20**

BaE joins Lockheed Martin in Joint Strike Fighter bid
 Shuns long-standing relationship with Boeing merger candidate McDonnell Douglas **22**

Lockheed Martin buys Russian rocket engines
 Represents company's attempt to fortify position in launch sector **24**

Ariane 5 team won't be rushed
 European Space Agency, CNES give OK for second flight **26**

Russia, Israel plan AS-50; Iran signs Ukraine deal
 Early warning aircraft would have Israeli onboard radar **27**

Thrust-vectoring nozzle work underway at ITP
 Production completion by year-end; engine ground tests in early '98 **27**

Czech order launches L-159
 Eastern Europeans mount new effort to meet demand for advanced trainer/combat support aircraft **28**

Aero Vodochody, AIDC plan joint utility aircraft
 To compete with Cessna Caravan, TBM-700 and Pilatus PC-12 **29**

Regional twinjets gain ground in highly competitive market
 American Eagle to take total of 67, Continental Express orders 25 more EMB-145s **30**

Ilyushin signs new Il-96M order
 Transaero becomes second airline with commitment to this aircraft **31**

Airbus entry crowds field of large business jets
 Introduces modified version of A319; first delivery set for '99 **33**

AERONAUTICAL ENGINEERING

Turkish-Israeli military ties shake Middle East
 Prepare for joint measures in case of regional instability **35**

U.S./RUSSIAN NUCLEAR TEAMWORK

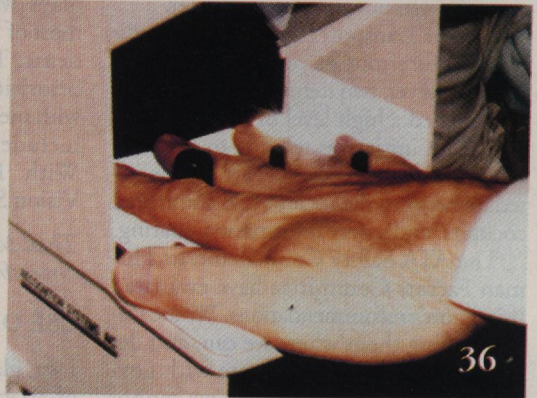
Scientists jointly focus on safeguarding stockpile
 To counter risk of weapons-grade fissile material being diverted to other nations **36**

Classification sensitivities slow weapon dismantlement
 Political framework must be in place before projects can begin **45**

Dangers mount despite cooperative efforts
 Russian economic and political turmoil threaten to offset gains in securing stockpile **47**

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'Superblock' typifies U.S. security measures

Upgraded in early 1980s with the rise of global terrorism **51**

Slow progress marks U.S./China efforts

Thanks to stronger governmental oversight by both countries **54**

Projects attempt to preclude 'brain drain'

To keep nuclear weapons knowledge away from rogue states **54**

Mutual trust buoys lab-to-lab exchanges

Personal level of commitment making the program work **57**

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Hughes develops HISAR flexible recon system

To answer demand for radar ground mapping for surveillance **58**

Robot serves as testbed for extraterrestrial investigations

To see how it might navigate and explore on the Moon **58**

INFORMATION TECHNOLOGY

Boeing scores a hit with WWW parts listing

Gives smaller airlines quick, affordable access to 410,000 part numbers **60**

CATIA product base expanded

One aim is to improve integration of manufacturers with suppliers **62**

Web-borne services could leave CAD/CAM/CAE in dust

But engineering vendors want to see which programs survive **63**

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U.S.-China trade seen in long-term trouble

Relations are secure for now, but anti-Chinese feeling has hardened on Capitol Hill **64**

Iran testing Chinese missile

U.S. fears Iran will use growing military capabilities **65**

\$13-billion satcom system proposed

Motorola plans network that would compete with Teledesic **66**

Proton orbits seven Iridium satellites

Step closer to offering global mobile phone service by end of '98 **66**

Alcatel, Loral to combine high-speed satcom network

Seek to be first to reach high-speed multimedia telecommunications market and have lowest costs **68**

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