builders Ferdinand Fellner and Hermann Helmer built the National Theatre in Cluj. The same architects built the National Theatre in Zagreb in 1895, as well as theatres in many other cities of the Habsburg Monarchy. In 1872, the University of Cluj was established, lectures thereby being given solely in Hungarian. In 1920, it became a Romanian university, today named the *Univesitatea Babes-Bolyai* after

the renowned Hungarian and the renowned Romanian scientist.

The Spring Meeting precedent to the sixteenth Danubia-Adria Symposium took place in Cluj-Napoca in May 1999.

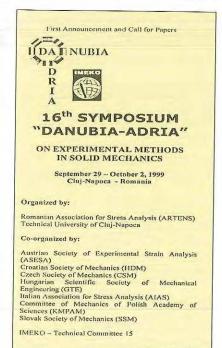
The sixteenth Danubia-Adria Symposium took place in Univers T Hotel in Cluj-Napoca between September 29 and October 2, 1999.







Members of the Scientific Committee after the Spring Meeting



Austria:	J. Affenzeller	(Graz)
	R. Bee	(Viena)
Croatia:	1. Alfirević	(Zagreb)
	S. Jecić	(Zagreb)
Czech Repub	olic: S. Holy	(Prague)
	J. Visner	(Plzeň)
Hungary:	L. Borbás	(Budapest)
	F. Thamm	(Budapest)
Italy:	A. Freddi	(Bologna)
	F. Di Marino	(Trieste)
Romania	N. Iliescu	(Bucharest)
	I. Pāstrav	(Cluj- Napoca)
Slovakia;	J. Brilla	(Bratislava)
	M. Držik	(Bratislava)
Scope		
The purpose provide a for experts of th neighboring current status	of the Internations of the Internations of the Internations of the Internations of the Internation of the In	entists and industria c region and of the mt and discuss the modern technology



The First Announcement and Symposium Proceedings

The official language of the Conference is English.



Univers T Hotel



R. Beer and I. Alfirević



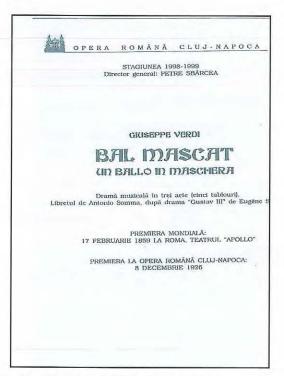
The second meeting of the Scientific Committee



Opening of the Symposium

In Cluj-Napoca National Theatre, the Symposium participants saw the *Masked Ball (Un ballo in maschera)*, the opera by Giuseppe Verdi.





In Cluj-Napoca National Theatre, the Symposium participants saw the Masked Ball (Un ballo in maschera), the opera by Giuseppe Verdi.



The Scientific Committee after the Symposium

Country	Number of papers
Austria	7
Croatia	4
the Czech Rep	oublic 5
Hungary	3
Italy	6
Poland	4
Romania	27
Slovakia	6
Germany	2
Russia	1
Ukraine	1
UK	1
Total	67

Sixty seven papers were submitted by 142 authors from 13 countries. One co-author came from Japan.



The Scientific Committee and some other Symposium participants in front of Univers T Hotel

THE SEVENTEENTH DANUBIA-ADRIA SYMPOSIUM

Prague, the Czech Republic, 2000



Prague (Czech: Praha; German and Croatian: Prag) is the capital and the largest city of the Czech Republic, with a population of 1,300,000. It is one of the oldest and most beautiful

cities in Central Europe. Medieval Prague grew as an agglomeration of towns and smaller settlements of craftsmen, merchants and farmers occupying the territory from the Prague Castle in the north to the Vyšehrad Fort in the south. The Prague Castle (Pražský Hrad) was founded in 873, while the Episcopacy of Prague was established in 973. In 1198, Otakar I proclaimed the Kingdom of Bohemia, later

acknowledged also by the Emperor Frederick II in 1212. The King of Bohemia was exempted from all obligations to the Holy Roman Empire, except for the participation in the imperial councils.

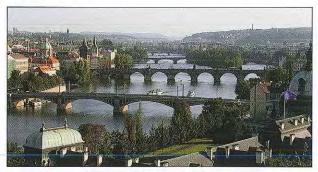


St. Vitus Cathedral



Hradčany

The Old Town (*Staré Město*) was founded in 1230, although the King Otakar II founded the Lesser Town (*Malá Strana*) as early as in 1257. Hradčany dates back to 1320 and was built around the Prague Castle. The peak of Prague's prosperity was seen under the rule of the Holy Roman Emperor Charles IV. At that time Bohemia was the most powerful state of the Holy Roman Empire. Charles IV made Prague its royal seat.



Vltava running through Prague



Charles Bridge

He also founded the New Town (*Nové Město*) in 1348, and the oldest University in Central Europe – *Charles University*. In 1355, Prague became the capital of the Holy Roman Empire. Since 1526, Prague had been under the Habsburg rule. The Emperor Rudolf II (1552-1612) returned the court to Prague. Owing to him, some of the most prominent philosophers, scientists, artists and architects, Tycho Brahe and Johannes Kepler being among them, had been brought to Prague. In 1784, the Emperor Joseph II united four independent urban areas

of Prague – the Old Town, the New Town, Malá Strana and Hradčany. The National Theatre was opened in 1883. After the World War I, Prague became the capital of the Czechoslovak Republic.





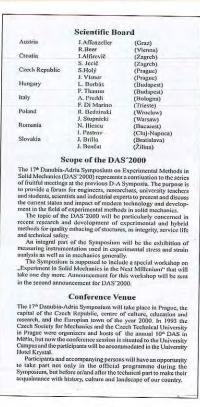
Spring Meeting in Prague, April 2000

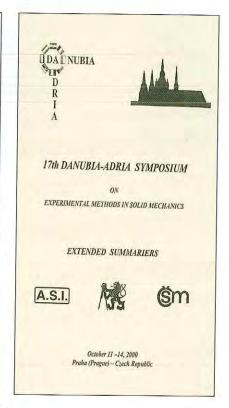




Scientific Committee





















Country	Number of papers
Austria	7
Croatia	11
the Czech Repu	ublic 23
Hungary	3
Italy	12
Poland	15
Romania	24
Slovakia	5
Estonia	1
Germany	7
UK	1
Total	109



Two hundred and twenty five authors from 12 countries submitted a total of 109 papers. The authors came from 11 countries listed in the above table, while one of the coauthors came from Slovenia.

THE EIGHTEENTH DANUBIA-ADRIA SYMPOSIUM

Steyr, Austria, 2001



Steyr is an ancient and lovely town in the Upper Austria, with a population of about 40,000. It is located about 140km west of Vienna and about 20km southeast of Linz. Two

rivers, Steyr and Enns, flow through the town and meet in the vicinity of its centre near the Lamberg Castle and St. Michael's Church. The the Mathematical Tower (Matematische Turm). This fully free standing, nine-storey building, was erected between 1749 and 1758. It is 50m high and represents one of the first examples of modern high-rise architecture. In medieval times Steyr was the centre of Austria's iron industry. As of today, Steyr hosts many companies producing motor vehicles, firearms and tractors.



Steyr Panorama, the confluence of Steyr and Enns Rivers





Steyr

Lamberg Castle dates back to 980, but the most of it was reconstructed between 1727 and 1731 in the Baroque style. In the vicinity of Steyr, remarkable monasteries (Kremsmünster and St. Florian) can be found. Kremsmünster was founded in 777. The symbol of the Monastery is the baroque observatory called

The Spring Meeting precedent to the 18th Danubia-Adria Symposium took place in Vienna at the *Institut für Festigkeitslehre*, *Abteilung für Experimentelle Festigkeitslehre* (the Institute of Strength of Materials, the Laboratory of Experimental Strength of Materials.)





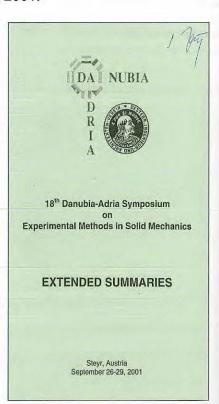
Scientific Committee at Vienna Spring Meeting held in 2011

The 18th Danubia-Adria Symposium took place in Steyr, a picturesque town situated in the

Upper Austria, between September 26 and September 29, 2001.



	ard	
Austria:	J. Affenzeller R. Beer J. Eberhardsteiner	(Graz) (Vienna) (Vienna)
Croatia:	I. Alfirevič S. Jecič D. Semenski	(Zagreb) (Zagreb) (Zagreb)
Czech Republic:	S. Holý J. Vísner	(Prague) (Prague)
Hungary:	L. Borbás F. Thamm	(Budapest) (Budapest)
Italy:	A. Freddi F. Di Marino	(Bologna) (Trieste)
Poland:	R. Bedziński J. Stupnicki	(Wroclaw) (Warsaw)
Romania:	N. Iliescu I. Pastrav	(Bucarest) (Cluj-Napoca)
Slovakia:	O. Bokůvka J. Benčat	(Žilina) (Žilina)
The 18 th Danub Methods in Solic continuation to previous D-A Sym	ia-Adria Symposium in Mechanics (DAS 20 the series of fruitful iposia. The purpose is	001) represents a meetings at the to provide a forum
The 18 th Danub Methods in Solic continuation to previous D-A Sym for engineers, students, scientis discuss the cutechnology and cmethods in solid The topic of the D recent research hybrid methods in	ia-Adria Symposium I Mechanics (DAS 20 the series of fruitful prosia. The purpose le researchers, universit st and industrial expe- rent status and in levelopment in the file nechanics. AS 2001 will be particuland development of for quality enhancies	on) represents meetings at the to provide a forumity teachers and the top teachers and the top teachers are top to the top teachers and the top teachers are the top teachers are the teachers ar
The 18th Danub Methods in Solic continuation to previous D-A Syrt for engineers, students, scientis discuss the cutechnology and cmethods in solicit The topic of the Drecent research hybrid methods service life and te An integral part of the present research processes of the previous processes of the previous processes of the previous	ia-Adria Symposium I Mechanics (DAS 20 the series of fruitful prosia. The purpose le researchers, universit st and industrial expe- rent status and in levelopment in the file nechanics. AS 2001 will be particuland development of for quality enhancies	DO1) represents - meetings at the to provide a forun ty teachers and trs to present an- pact of moden id of experimenta larly concerned to experimental and g of structures the the exhibition of frimental strain and
The 18th Danub Methods in Solic continuation to previous D-A Syrt for engineers, students, scientis discuss the cutechnology and cmethods in solicit The topic of the Drecent research hybrid methods service life and te An integral part of the present research methods in the previous previous programment of the previous previou	ia-Adria Symposium I Mechanics (DAS 20 the series of fruitful posia. The purpose is researchers, universit s and industrial experient status and intevelopment in the file nechanics. AS 2001 will be particularly development of for quality enhancis chnical safety. If the Symposium will be nentation used in experient of significant of the series of the	DO1) represents - meetings at the to provide a forun ty teachers and trs to present an- pact of moden id of experimenta larly concerned to experimental and g of structures the the exhibition of frimental strain and



The First Announcement and Symposium Proceedings

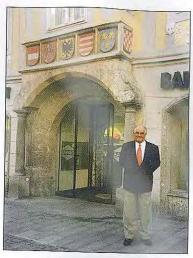




Opening of the 18th Danubia-Adria Symposium



Scientific Committee at Vienna Spring Meeting held in 2011



I. Alfirević in front of the building bearing the Coats of Arms of Croatia, Dalmatia and Dubrovnik on its front





Symposium dinner

Country	Number of papers
Austria	14
Croatia	11
the Czech Republic	21
Hungary	2
Italy	9
Poland	10
Romania	12
Slovakia	3
Estonia	1
Denmark	1
Germany	6
Japan	1
Slovenia	1
UK	1
Total	93

THE NINETEENTH DANUBIA - ADRIA SYMPOSIUM

Polanica Zdrój, Poland, 2002



Polanica-Zdrój (German: Altheide-Bad; Czech: Starý Bor) is a spa in the Kłodzko Valley situated in the Lower Silesia, about 90km southwest of Wroclaw, near the Polish-

Czech border. Its population approximates to 7,000. Polanice-Zdrój was first mentioned in 1347 under the name Heyde. At that time, it was a part of the Kingdom of Bohemia which belonged to the Holy Roman Empire. During the Thirty Year's War, the town was destroyed by the Swedish troops in 1645. It became a part of the Brandenburg-Prussia in 1742, while

in 1871 it turned into a part of the German Empire. After the World War II, Polanica-Zdrój was returned to Poland. Water springs in Polanica-Zdrój became famous already in the 16th century. From 1595 on, the town had been owned by the Jesuits. They built their residence there and started to utilize the springs for medical purposes. After the destruction by the Swedish troops, the place did not recover until the 19th century. Joseph Gromis, a rich merchant from Kłodzko, purchased it in 1828, developed water springs-based infrastructure, and built a wellness room and a wooden bathhouse. Polanica-Zdrój became popular as a health resort already in 1870.



is a well-known health resort picturesquely located in the Klodzko valley at the altitude of 410 m. It is situated in the valley of the Bystrzyca Dusznicka river at the foot of gentle slopes of the Table Mountains (Góry Stolowe) and the Bystrzyckie Mountains, which are covered with coniferous forests.

Those buge areas of woodland influence the annual temperature course creating in Polanica a mild, submontane climate with moderate intensity of stimuli.

The main factors determining the health-restorative character of the town are four rich calcium bicarbonate mineral springs. The unique proportions of calcium to magnesium and sodium to potassium are rarely found in other mineral waters.





Polanica-Zdrój





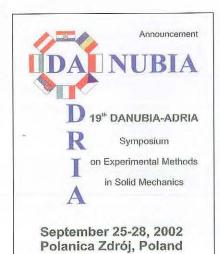


The Spring Meeting of the Scientific Committee was held in Warsaw in May 2002.

The nineteenth Danubia-Adria Symposium took place in Polanica-Zdrój between September 25 and September 28, 2002.

Country	Number of papers accepted			
	total	oral	poster	
AU (Austria)	7	2	5	
CR (Croatia)	8	2	6	
CZ (Czech Republic)	19	2	17	
GE (Germany)	4	3	1	
HU (Hungary)	3	1	2	
IT (Italy)	7	1	6	
JA (Japan)	1	1	0	
PL (Poland)	33	3	30	
RO (Romania)	8	1	7	
RU (Russia)	4	1	3	
SK (Slovak Republic)	8	2	6	
UA (Ukraine)	1	0	l	

Statistics of the papers presented at the Symposium



Organized by:
Committee for Mechanics of the
Polish Academy of Sciences (KMPAN)
Institute of Aeronautics and Applied Mechanics of the
Warsaw University of Technology (ITLIMS)

Co-organized by:
Austrian Society of Experimental Strain Analysis (ASESA)
Croatlan Society of Mechanics (HDM)
Czech Society of Mechanics (CSM)
Hungarian Scientific Society of Mechanical Engineering (GTE)
Italian Association for Stress Analysis (AIAS)
Romanian Association for Stress Analysis (ARTENS)
Slovak Society of Mechanics (SSM)

International Scientific Board: Austria: J. Affenzeller ientific Board:
J. Affenzeller
R. Beer
J. Eberhardsteiner
I. Alfirevič
S. Jecič
D. Semenski
S. Holý
J. Visner (Ginz)
(Vienna)
(Vienna)
(Zagreb)
(Zagreb)
(Zagreb)
(Prague)
(Prague)
(Budapest)
(Budapest)
(Bologna)
(Trieste)
(Worcław)
(Warsaw)
(Bucarest)
(Cluj-Napoca)
(Žilina) Croatia: Czech Republie: J. Visner L. Borbás F. Thamm A. Freddi Hungary: Italy: A. Freddi F. Di Marino R. Będziński J. Stupnicki N. Hiescu I. Pastrav O. Bokúvka J. Benčat Romania: Slovakia:

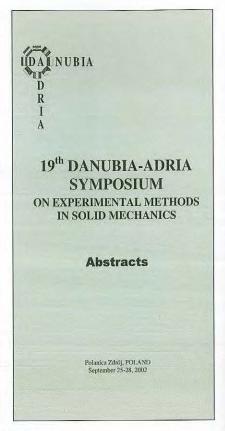
National Committee:

J. Stupnicki – Chairman R. Będziński – Co-chairman L. Dietrich – Co-chairman

Scope of DAS 2001:

The 19° Danubia-Adria Symposium on Experimental Methods in Solid Mechanics represents a continuation to the series of meetings at the previous DAS Symposium. The purpose of this meeting is to bring together engineers, researchers, industrial experts as well as students and undergraduates to present and discuss their achievements and developments in the field of experimental methods in solid mechanics.

A presentation of instruments and experimental methods is being planned during the Symposium. Exhibition space will be available and it is anticipated that the Symposium will attach researchers and exhibitors from industry to present their instruments and measuring techniques applied in experimental methods in solid mechanics and related topics. Further information can be obtained from the Secretariat of the Symposium. Symposium



The First Announcement and the Symposium Proceedings

Country	Number of papers
Austria	7
Croatia	8
the Czech Repub	olic 21
Germany	3
Hungary	4
Italy	8
Poland	36
Romania	9
Slovakia	6
Japan	1
Russia	3
Ukraine	2
Total	108

Statistics of the papers published in the **Proceedings**

Two hundred and forty one authors and co-authors from 12 countries submitted 108 papers published in the Symposium Proceedings. However, only 103 papers were presented at the Symposium, out of which 19 in oral and 84 in poster form.

THE TWENTIETH DANUBIA-ADRIA SYMPOSIUM Györ, Hungary, 2003

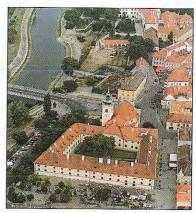


Györ (German: Raab; Czech and Slovak: Rab) is the capital of Györ-Moson-Sopron County and the most important city of the northwest Hungary. It is located halfway

between Budapest and Vienna, and has a population of about 130,000. The first large settlement established in the Györ area was the Celtic Arabona. Romans conquered this part of Pannonia around 10 AD, but due to the constant attacks of the tribes living east, they chose to abandon it in the 4th century. Around

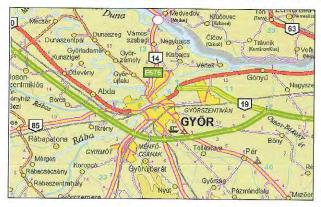
500 AD, the area was settled by Slavs and later on in 547 by Lombards. Between 568 and 800, this territory was ruled by Avars. Between 880 and 894 it was a part of the Great Moravia. Hungarians occupied the town around 900 and fortified it. After the Battle of Mohács that took place in 1526, Györ was ruled by Austrians and Turks, turn and turn about. After the battle of Vienna in 1683, Turks abandoned Györ forever. In 1743, Maria Theresa promoted Györ to a free royal town. The ancient core of the city is the Káptalan Hill situated at the confluence of three rivers, Danube, Rába and Rábca.





Györ Panorama

The Spring Meeting precedent to the 20th Danubia-Adria Symposium took place in Révész Hotel in Györ.





Révész Hotel in Györ



RÉVÉSZ PANZIÓ-ÉTTEREM

The second meeting of the Scientific Committee

First Announcement



20th DANUBIA-ADRIA

Symposium on Experimental Methods in Solid Mechanics

September 24-27, 2003 Győr, Hungary

http://www.gte.mtesz.hu/das

Organized by: Hungarian Scientific Society of Mechanical Engineering (GTE) Széchenyi István University, Győr (SZE)

Co-organized by:
Austrian Society of Experimental Strain Analysis (ASESA)
Croatian Society of Mechanics (HDM)
Czech Society of Mechanics (CSM)
Italian Association for Stress Analysis (AIAS)
Committee for Mechanics the Polish Academy of Sciences

(MPAM) ournanian Association for Stress Analysis (ARTENS) lovak Society of Mechanics (SSM)

Croatia: I. Alfirević (Zagreb) S. Jecić (Zagreb) D. Semenski (Zagreb) Czech Republic: S. Holý (Prague) J. Visner (Pilsen) F. Plánička (Pilsen) Hungary: L. Borbáš (Budapest) Italy: A. Freddi (Budapest) Italy: A. Freddi (Bologna) Poland: R. Bedzíński (Wroclaw) J. Stupnicki (Warsaw) Romania: I. Pastray (Suj-Napoca) Slovakia: O. Bokůvka (Zilina) J. Benčat (Zilina) (Gratislava)	Austria:	J. Affenzeller J. Eberhardsteiner	(Graz) (Vienna)
J. Visner	Croatia:	S. Jecić	(Zagreb)
Talan	Czech Republic:	J. Visner	(Pilsen)
G. Nicoletto (Parma)	Hungary:		
J. Stupnicki (Warsaw) Romania: N. Iliescu (Bucarest) I. Pastrav (Cluj-Napoca) Slovakia: O. Bokůvka (Žilina) J. Benčat (Žilina)	Italy:		
I. Pastrav (Cluj-Napoca) Slovakia: O. Bokůvka (Žilina) J. Benčat (Žilina)	Poland:		
J. Benčat (Žilina)	Romania:		
	Slovakia:	J. Benčat	(Žilina)

Honorary Members of International Scientific Board: HR Prof. Dr. Rudolf Beer (Vienna) Prof. Dr. István Huszár (Gödöllő)

Scope of DAS 2003

Scope of DAS 2003

The 20th Denuibia-Adria Symposium on Experimental Methods in Solid Mechanics (DAS 2003) represents a continuation to the series of fruitful meetings at the previous D-A Symposia. The purpose is to provide a forum for engineers, researchers, university teachers and students, scientists and industrial experts to present and discuss the current status and impact of modern technology and development in the field of experimental methods in solid mechanics.

The topic of the DAS 2003 will be particularly concerned to recent research and development of experimental and hybrid methods for quality enhancing of structures, service life and technical safety.

An integral part of the Symposium will be the exhibition of measuring instrumentation used in experimental strain and stress analysis as well as in mechanics generally.

Conference Venue
The 20th Denubia-Adria Symposium will take place in Győr (Western part of Hungary) which is a centre of ancient and modern industry and culture, education and research. There are remarkable abbey, founded in 996 (Pannonhalma) located in the vicinity of Győr. So



20th DANUBIA-ADRIA SYMPOSIUM

on Experimental Methods in Solid Mechanics

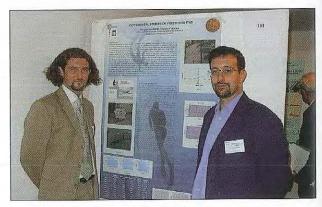
Abstracts

September 24-27, 2003 Győr, Hungary

The First Announcement and the Symposium Proceedings



Opening of the Symposium



Poster session





Concert given in the Old Church in Györ

The 20th Danubia-Adria Symposium took place in Révész Hotel in Györ between September 24 and September 27, 2003. The Opening Ceremony was held at the Szechny University. During the Symposium, a Technical Visit to the

Raba Museum was organized. The participants also attended a concert given in the Old Church in Györ. The Symposium dinner was served at the Révész Hotel.

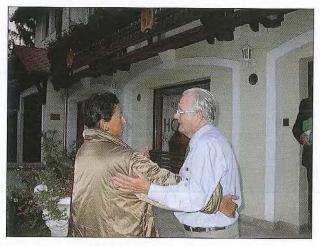








Symposium dinner



Madame Curioni and R. Beer



Madame Borbas and A. Freddi

Country	Number of papers
Austria	15
Croatia	4
the Czech Republi	c 31
Hungary	22
Italy	5
Poland	15
Romania	8
Slovakia	6
Estonia	2
Germany	6
Japan	1
USA	1
Total	116



Symposium participants

Two hundred and forty four authors from 12 countries submitted a total of 116 papers.

THE TWENTY FIRST DANUBIA - ADRIA SYMPOSIUM Brijuni, Croatia, 2004



The Brijuni Islands or Brijuni (Italian: Brioni) are a group of 2 larger and 12 smaller islands off the southwest coast of Istria, from which they are separated by the narrow

Fažana Strait. The largest island, Veliki Brijuni, occupies the area of 5.6 km² and lies only 2km off the coast. The second largest island, Mali Brijun, occupies the area of 1,072 km². The total square surface occupied by these 14 islands equals to 7.36 km². Brijuni have been inhabited since the prehistoric times. In the mid-second millennium BC, they were inhabited by the Illyrian tribe Histri. The Istrian Peninsula was conquered by the Romans in 177 BC. After that, $the \, history \, of \, Brijuni \, has \, followed \, that \, of \, Pula. \, In \,$ 1815, the Islands became a part of the Austrian Empire. Since the Islands made a control point to the entrance to the Austrian naval base in Pula, a strong fortress Fort Tegetthoff was erected on Veliki Brijun, but the Austro-Hungarian Navy subsequently abandoned the fortress. After seeing the Islands in their fascinating beauty, Paul Kupelwieser (1843-1919), a Viennese industrial magnate, bought

the whole archipelago and transformed it into an exclusive summer resort.

After being returned to Yugoslavia, the Islands became the residence of the Yugoslav $President Tito. Almost 100 \, presidents, kings \, and \,$ other heads of states were entertained there by Tito. Many movie stars and other celebrities were also Tito's guests there, including Gina Lollobrigida, Carlo Ponti, Richard Burton and Elisabeth Taylor. On Veli Brijun Island two hotels can be found: the Neptun Hotel, in which the 21st Danubia-Adria Symposium took place, and the Karmen Hotel. Veli Brijun is covered in Mediterranean vegetation and has a zoo, a pheasant farm and a safari park populated with diverse animal species from all over the world, so that herds of wild dear and peacocks can be seen roaming around.

The Spring Meeting precedent to the 21st Danubia-Adria Symposium was held at the Coning Hotel in Trakošćan. The participants of the meeting visited the Neo-Gothic Trakošćan Castle and Sveti Križ Začretje Castle. Trakošćan Castle dates back to the 13th century. Between 1840 and 1862 the Castle was reconstructed in Neo-Gothic style. On the occasion, a concert



Map of the Brijuni Islands



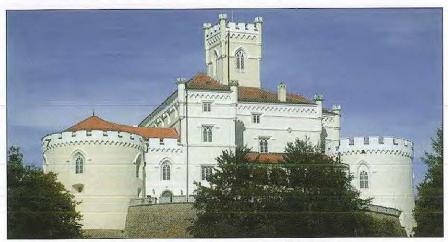
Sweeping view of the Brijuni Islands

and a reception were given for the Scientific Committee members and their accompanying persons in the Sveti Križ Začretje Castle. The reception was given by the family that owns the Castle; in this respect, the cooperativeness of Mrs Mirna Flögel Mršić deserves a special mention.





Participants of the Spring Meeting in front of the Coning Hotel in Trakošćan, May 2004





Trakošćan Castle





Sv. Križ Začretje Castle

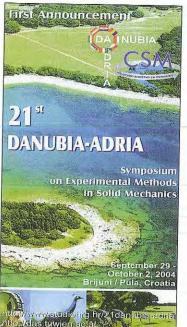
The 21st Danubia-Adria Symposium took place in the Neptun Hotel situated on the Veli Brijun Island between September 29 and October 2, 2004. During the 21st Danubia-Adria Symposium, the following was organized:

- Technical Visit to Plomin Thermal Power Plant;
- Visit to the Archaeological Museum in Pula;
- A tour through the Istria inland, including a visit to a vine cellar.

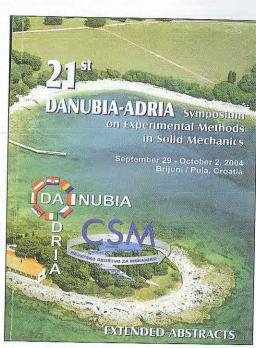




Neptun Hotel



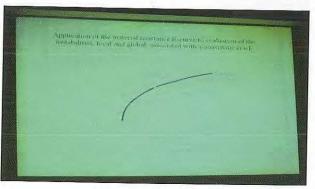




The First Announcement and the Symposium Proceedings



Elmar Ficker, the Chairman



Presentation of a paper









Opening of the 21st Danubia-Adria Symposium, Brijuni, 2004













Symposium dinner



The second meeting of the Organizing Committee



Coffee break



Scientific Committee of the Danubia-Adria Symposium







Brijuni National Park and the car owned by Josip Broz Tito

Country	Number of papers
Austria	13
Croatia	16
Czech Republic	34
Hungary	10
Italy	8
Poland	21
Romania	10
Slovakia	6
Slovenia	3
Denmark	1
Germany	11
Japan	1
USA	1
Total	135

Three hundred and six authors and co-authors from 13 countries submitted a total of 135 papers. Eighty contributions were presented during the poster sessions B, D, and G, while fifty five presentations were delivered during the oral sessions A, C, E, F, H, I, J, and K.

