## CONTENTS

Opening address by the Honorary President of the European Glaucoma Society, Pro- fessor J. Baron François (†)	XI
Introduction by the Editors	XIII
Summary of the scientific programme of the Second Symposium of the European Glaucoma Society by E.L. Greve	XIV
PART ONE: VISUAL FUNCTION IN GLAUCOMA	
Present and future of computer assisted perimetry in glaucoma: selected topics by E.L. Greve, T.J.T.P. van den Berg and C.T. Langerhorst	1
Psychophysics in glaucoma. A modified concept of the disease by J. Flammer	11
Psychological factors in computer assisted perimetry; automatic and semi-automatic perimetry (abstract) by D.G.M.M. de Jong, E.L. Greve and D. Bakker	18
Optic disc densitometric data and delayed VECP in glaucoma by E. Marré, P. Mierdel and HJ. Zenker	19
Correlation or non-correlation between glaucomatous field loss as determined by automated perimetry and changes in the surface of the optic disc?  by S.A. Dimitrakos, U. Fey, B. Gloor and P. Jäggi	23
Computerized analysis of visual fields by C.E.T. Krakau and C. Holmin	35
The visual field quantification issue by R. Etienne and E. Sellem	41

fields by M. Mertz and U. Zirkel	ual 47
The Humphrey Field Analyzer: concepts and clinical results by A. Heijl	55
Perimetry in congenital and infantile glaucoma by M. Rolando, P. Capris, E. Gandolfo, C. Burtolo, G.A. Calabria at M. Zingirian	nd 65
Computerized perimetric program for detection of early glaucomato defects	
by E. Gandolfo, M. Zingirian and P. Capris	69
Early glaucomatous visual field defects in computerized perimet (Octopus 201) and tangent screen (Bjerrum Kampimetry) (abstraction by J. Thygesen and S.V. Kessing	try ct) 75
PART TWO: MEDICAL THERAPY	
Rabbit IOP and vitreous, lens and aqueous weights after various diureti and water loading test. The influence of optic nerve transsection by A.D. Petounis, J. Laskaratos and J. Fronimopoulos	ics 77
Effect of adrenergic agonists and $\beta_1/\beta_2$ antagonists on intraocular presure and adenylate cyclase in rabbit ciliary processes (abstract) by A. Palkama, H. Uusitalo, K. Raij and R. Uusitalo	es- 84
Relative distribution of epinephrine, pilocarpine and timolol in the rabbeye by L. Salminen and A. Urtii	
Location of $\beta$ -adrenergic receptors in the cornea and ciliary body of the rabbit (abstract)	
by I. Lehto, A. Palkama, K. Raij, H. Uusitalo and J. Lehtossolo  Effect of ocular pigmentation on ocular disposition, metabolism arbiophasic availability of pilocarpine by L. Salminen and A. Urtti	90 nd 91
The comparative ocular responses of pilocarpine ophthalmic rods an pilocarpine eye drops by G.K. Krieglstein, W. Schrems and R. de Natale	
The influence on the capillary blood volume of the optic nerve heat exerted by beta-blocking agents with and without intrinsic sympator mimetic activity	0-
by Y. Robert and P. Hendrickson	103
—)-propanolol in the isolated rabbit iris by H.A. Fleig and G.K. Krieglstein	111

by J.R. Stryz and HJ. Merté	119
The effect of d-timolol on intraocular pressure in patients with ocular hypertension (abstract) by E.U. Keates and R. Stone	124
The effects of timolol use in glaucoma patients under the age of 17 years by H.D. Hoskins, Jr., J. Hetherington, Jr., S.D. Magee, R. Naykhin and C. Migliazzo	125
Levobunolol: Minimum concentration required to control IOP in subjects with primary open-angle glaucoma or ocular hypertension (abstract) by E. Duzman, D. Long, G. Spaeth and G.D. Novack	
Long-term treatment of chronic open angle glaucoma with topical	
Pindolol 1% by M. Goethals, L. Missotten and K. Westelinck	131
Maximal medical treated glaucoma patients by M. Sefić, A. Pišteljić and R. Alajbegović	135
Levobunolol: A new beta-adrenoceptor antagonist for the treatment of glaucoma (abstract) by G.D. Novack, E. Duzman, D.S. Robins and J.C. Lue	138
Eye irritation caused by topical beta-blocker therapy. A new method-	
ological screening approach by G.K. Krieglstein and B. Scoville	139
PART THREE: LASER TREATMENT	
Laser trabeculoplasty by P. Pohjanpelto	145
Computerized perimetry before and after trabeculoplasty. A study of the short-term effect	
by C. Holmin and B. Bauer	153
Effect of Argon laser trabeculoplasty in open angle glaucoma: our experiences	
by C.E. Traverso, G.L. Spaeth, R.J. Starita, R.L. Fellman, K.C. Greenidge and E. Poryzees	157
Argon laser trabeculoplasty. Variation of methods and immediate complications	165
by Y. Kitazawa, S. Shirato, T. Yamamoto and S. Eguchi Early and late effects intraocular pressure of the treatment mode of	
laser trabeculoplasty by M. Teräsvirta, K. Nerdrum and E. Tuovinen	171

Gonioretraction vs. trabeculoplasty by A. Bechetoille and G. Jallet	177
Cyclotrabeculospasis — a new and simple method of laser treatment in glaucoma by M.M. Krasnov	179
The immediate IOP responses after neodymium YAG laser iridotomy in the human eye (abstract) by W. Schrems, O. Eichelbrönner and G.K. Krieglstein	182
Argon laser trabeculoplasty in chronic open angle glaucoma by V. Ljubovević and Z. Kuljača	183
Laser-prophylaxis of neovascular glaucoma by F.M. Honrubia, P. Grijalbo, L. Gomez, E. Albalad and J. Olivan	187
Ocular effect of neodymium-YAG laser (abstract) by A.A. Khodadoust, Arkfield, J. Caprioli and M.L. Sears	192
Argon laser trabeculoplasty after trabeculectomy by F.M. Honrubia, P. Grijalbo and L. Gomez	193
Experimental and clinical laser iridectomy with Argon and Nd YAG Q switched laser by M. Brihaye, G. Vrensen, F. Verworst, C. Belgrado and O. Peters	203
PART FOUR: SURGICAL TREATMENT	
Surgery and its documentation in glaucoma by W. Leydhecker	211
Scleral changes after diathermy and incision (scanning electron microscope study) by P. Rozsíval and S. Řehák	225
Long-term observations on goniotrephination by N.G. Lambrou and C.N. Christakis	231
Ten year prospective follow-up of a glaucoma operation. The Double Flap Scheie in primary open angle glaucoma by E.L. Greve, C.L. Dake, J.H.J. Klaver and E.M.G. Mutsaerts	237
Long-term observations after trephination with scleral flap in glaucoma with treatened point of fixation by J. Vossen and H. Neubauer	249
Valve trabeculotomy and filtering iridocycloretraction in glaucoma by A.P. Nesterov, E.A. Egorov and L.N. Kolesnikova	253
A new approach for chamber angle surgery by J. Draeger and H. Wirt	259
Gonioscopic trabeculectomy. First results	265

Experimental and clinical consideration of direct cyclodiathermy by Dj. Kontić, D. Cvetković and V. Dodić-Stepanović	273
Research on the mechanism of trabeculectomy: the main pathway the aqueous humor by C.D. Bordeianu	of 281
The trabeculo-keratencleizis under scleral flap by C.D. Bordeianu	287
A modification of Cohan's filtering corneal trephination (abstract) by I. Takáts	294
PART FIVE: MISCELLANEOUS SUBJECTS	
Variation in anterior chamber volume during the pilocarpine/pherephrine provocative test by C.V. Clark and R. Mapstone	nyl- 295
Unilateral angle closure glaucoma: a biometric study by G. Strasser and W. Hauff	301
Limbal and axial chamber depth. Variations. Detection of primary and closure glaucoma (abstract) by P.H. Alsbirk	gle- 304
Value of ultrasonographic biometry in congenital glaucoma by A. Tarkkanen, R. Uusitalo and J. Mianowicz	305
Astigmatism and amblyopia in congenital glaucoma by J. Tsamparlakis, E. Stavrakas, T. Kitsos and A. Amariotakis	311
Hereditary juvenile glaucoma by O. Valle and T. Kivelä	317
Chronic open-angle glaucoma with exfoliation syndrome. Long-tensional prognosis of treated and regularly followed patients by P. Demailly and D. Gruber	erm 321
Baring of the optic disc circumlinear vessels in ocular hypertension a glaucoma by M. Rolando, G.P. Pesce and G.A. Calabria	and 327
Glaucomatous alterations of the optic disc in high myopia by M. Miglior, R. Ratiglia, G. Capitani and S. Miglior	333
Orbital haemodynamics and aqueous humour dynamics in diseases of carotid-cavernous and vertebro-basilar systems by M. Varga, P. Follmann, I. Gábriel, L. Remenár and M. Hajda	the 339
Panretinal photocoagulation treatment of severe, complicated glauco (abstract)	ma
by N.S. Schiodte, O.I. Nissen and S.V. Kessing	348

Hemorrhagic glaucoma after intraocular operations by G. Imre, G. Salacz and J. Bögi	349
Blood and plasma viscosity measurements in glaucoma patients (abstract) by J.H.J. Klaver, E.L. Greve, H. Goslinga, H.C. Geijssen and J.H.A. Heuvelmans	
Secondary glaucoma in reactive lymphoid hyperplasia of the conjunctiva and uveal tract by Z. Kuljača, V. Ljubojević and P. Bojić	353
The natural course of open angle glaucoma (poster exhibition) by T. Jerndal	359
Goniodysgenesis in elderly glaucoma and non-glaucoma patients. A masked biomicroscopic study of the anterior segment (abstract) by B. Svedbergh, A. Alm, B. Amér, T. Jerndal and W. Thorburn	364