



***TAGA
HONORS
AWARDS***

1998
*on the occasion
of the
50th Anniversary
Technical Conference*

Presented at
Chicago, Illinois
during the
50th Anniversary Technical Conference
of the
Technical Association of the Graphic Arts
April 28, 1998

THE
TAGA HONORS AWARD
For Outstanding Contributions
to the
Graphic Arts Industry

on the occasion of the 50th Anniversary Technical Conference

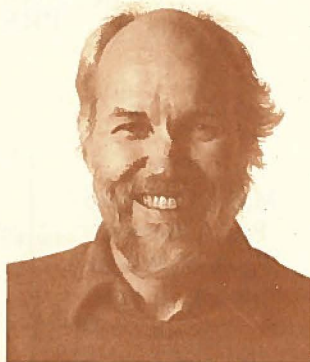
The Technical Association of the Graphic Arts (TAGA) is an organization of technologists, scientists, technical and production personnel in the printing and allied industries and students in accredited graphic arts programs. It was established in 1948 as a forum for reporting on new research and technology in the graphic arts. It has a long history of distinguished annual conferences at which technical papers on graphic arts subjects are presented. The annual volumes of TAGA Proceedings are the published records of these papers by leading technical and scientific men and women who have contributed measurably to the progress of printing technology and graphic science throughout the world. The Board of Directors of TAGA hereby singles out an imaging scientist and a printing ink scientist with distinguished careers to receive the 1998 TAGA Honors Award as appreciation from their peers for their dedicated services and contributions to the advancement of graphic arts.

As evidence of this honor, the awardees will receive the symbol of the TAGA Honors Award, designed in 1976 by R. E. Maurer, then president of TAGA. It consists of a trihedron with three transparent side panels in the subtractive primary colors, yellow, magenta, and cyan, which are the colors of the three dye layers in transparencies and the colorants used in the printing inks for process-color reproduction. The overlap colors of red, green, and blue (violet) are generated by the colored panes. The black base represents the black printer and the white base of the pyramid the printing paper.

Presented here is a summary of the accomplishments of this year's distinguished recipients of the TAGA Honors Award.

**TAGA
HONORS AWARD 1998
to
FRANZ SIGG**

for his over 40 years of dedicated services to the research, design and production of test targets for the graphic arts marketed by six suppliers, for his proposals of the term Gray Component Replacement (GCR), for the classes on graphic arts technology and seminars he taught at the RIT T&E Center, for his involvement in teaching, as a Thesis Advisor for graduate students in the RIT School of Printing, his studies of CTP exposure control, and his four TAGA technical papers, TAGA honors Franz Sigg.



Franz Sigg was born with ink in his veins. He is the fourth generation in a family of printers and started in the printing industry in his father's printing plant in Winterthur, Switzerland as an apprentice press operator. He continued his practical training in a Swiss trade shop learning camera work and dot etching for one year.

Franz's attraction to test targets was a natural consequence of his father's development of a platemaking test target which became the original UGRA-wedge after Franz did the research to reduce it to practice. His fascination for targets, their design and production has continued ever since. He has a company in Winterthur which does research on test targets and produces special targets for EMPA/UGRA (Swiss graphic arts research institute), Gretag (now Gretag-Macbeth), Kodak, 3M (Imation), and RIT.

Franz attended the RIT School of Printing in 1962-1964. He was an avid learner with a lust for knowledge. In 1964 he returned to Switzerland where he performed research to set up a reproduction (prepress) department in his family's printing plant. The research involved the development of a color control bar and evaluation system to standardize printing, proofing and color reproduction, the rights to which were sold to Gretag who developed it into the Gretag Color Control System in 1969.

Sigg returned to RIT in 1969 to obtain his Bachelor's and Master's degrees in Printing Technology. He continued to improve test target design and production methods. Since 1983 he has commuted between RIT and Switzerland. At RIT he performed research in the Technical and Education Center, gave classes on printing technology and seminars on Microline theory standardization, and quality control. In 1984 he proposed the name Gray Component Replacement (GCR) to what was being called Achromatic Color Reproduction (ACR) and the name has stuck. He was also engaged in many research projects for the RIT Research Corporation.

In 1988 Franz transferred to the School of Printing where he has been involved in more teaching and has been outstanding as a Thesis Advisor to graduate students. He is now concentrating his efforts on digital imaging and exposure control in CTP situations. For his many accomplishments, TAGA distinguishes Franz Sigg with the 1998 TAGA Honors Award.

PREVIOUS HONOREES

1976

Michael H. Bruno
Paul J. Hartsuch
Frank M. Preucil
John A. C. Yule

1977

Albert R. Materazzi
Robert E. Rossell
Earl I. Sundeen
William C. Walker

1978

Bernard R. Halpern
Francis L. Wurzburg, Jr.

1979

Harvey F. George
Richard E. Maurer
John McMaster

1980

William D. Schaeffer
Philip E. Tobias

1981

John F. Crosfield
George W. Jorgensen

1982

Gordon O. F. Johnson
Herbert E. Phillips

1983

William F. Schreiber
William E. Somerville

1984

Robert W. Bassemir
Kurt Pfahl

1985

Jean Chevalier
Emilio Gerboni
Simo T.P. Karttunen
Bryan H.W. Sunderland

1986

John Macphee
J. Tom Morgan, Jr.
Miles F. Southworth

1987

Werner F. Gerlach
Warren L. Rhodes
Kenneth G. West

1988

James R. Cox
Philip C. Evanoff
Lawrence A. Wilson

1989

H. Brent Archer
S. Thomas Dunn

1990

Robert H. Downie
Dr. Thomas A. Fadner
Dr. Tapio Lehtonen

1991

Sven Ahrenkilde
Brian M. Chapman
Charles E. Rinehart

1992

Richard S. Fisch
Milton Pearson

1993

Paul F. Borth
DR.-ING. Uwe Gast

1994

Dr. Kurt Schlapfer

1995 - Orlando

Dr. Eiichi Inoue
Patrice M. Dunn

1995 - Paris

Anthony J. Johnson

1996

Gary G. Field
David Q. McDowell

1997

Dr. Edward M. Granger
Raymond J. Prince

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TECHNICAL ASSOCIATION OF THE GRAPHIC ARTS

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Rochester, NY 14623-5604

TATA GROUP

Year	Revenue	Profit	Assets	Liabilities	Equity
1950	100	10	100	100	100
1951	110	12	110	110	110
1952	120	15	120	120	120
1953	130	18	130	130	130
1954	140	20	140	140	140
1955	150	22	150	150	150
1956	160	25	160	160	160
1957	170	28	170	170	170
1958	180	30	180	180	180
1959	190	32	190	190	190
1960	200	35	200	200	200
1961	210	38	210	210	210
1962	220	40	220	220	220
1963	230	42	230	230	230
1964	240	45	240	240	240
1965	250	48	250	250	250
1966	260	50	260	260	260
1967	270	52	270	270	270
1968	280	55	280	280	280
1969	290	58	290	290	290
1970	300	60	300	300	300
1971	310	62	310	310	310
1972	320	65	320	320	320
1973	330	68	330	330	330
1974	340	70	340	340	340
1975	350	72	350	350	350
1976	360	75	360	360	360
1977	370	78	370	370	370
1978	380	80	380	380	380
1979	390	82	390	390	390
1980	400	85	400	400	400
1981	410	88	410	410	410
1982	420	90	420	420	420
1983	430	92	430	430	430
1984	440	95	440	440	440
1985	450	98	450	450	450
1986	460	100	460	460	460
1987	470	102	470	470	470
1988	480	105	480	480	480
1989	490	108	490	490	490
1990	500	110	500	500	500
1991	510	112	510	510	510
1992	520	115	520	520	520
1993	530	118	530	530	530
1994	540	120	540	540	540
1995	550	122	550	550	550
1996	560	125	560	560	560
1997	570	128	570	570	570
1998	580	130	580	580	580
1999	590	132	590	590	590
2000	600	135	600	600	600
2001	610	138	610	610	610
2002	620	140	620	620	620
2003	630	142	630	630	630
2004	640	145	640	640	640
2005	650	148	650	650	650
2006	660	150	660	660	660
2007	670	152	670	670	670
2008	680	155	680	680	680
2009	690	158	690	690	690
2010	700	160	700	700	700
2011	710	162	710	710	710
2012	720	165	720	720	720
2013	730	168	730	730	730
2014	740	170	740	740	740
2015	750	172	750	750	750
2016	760	175	760	760	760
2017	770	178	770	770	770
2018	780	180	780	780	780
2019	790	182	790	790	790
2020	800	185	800	800	800

FINANCIAL STATEMENTS OF TATA GROUP
 FOR THE YEAR 2020
 Prepared by the Board of Directors