

SUMMARY PROPOSAL BUDGET YEAR 1

ORGANIZATION Syracuse University				FOR NSF USE ONLY		
				PROPOSAL NO.	DURATION (months)	
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR Edward D Lipson				AWARD NO.	Proposed	Granted
					NSF Funded Person-mos.	
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				CAL	ACAD	SUMR
1. Edward D Lipson - Professor				0.00	0.00	2.00
2. Geoffrey C Fox - Professor				0.00	0.00	0.00
3. Corinna E Lathan - none				0.00	0.00	0.00
4. Gregg C Vanderheiden - none				0.00	0.00	0.00
5. Erik Viirre - none				0.00	0.00	0.00
6. (1) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)				2.00	0.00	0.00
7. (6) TOTAL SENIOR PERSONNEL (1 - 6)				2.00	0.00	2.00
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)						
1. (1) POST DOCTORAL ASSOCIATES				12.00	0.00	0.00
2. (1) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)				24.00	0.00	0.00
3. (3) GRADUATE STUDENTS						44,109
4. (2) UNDERGRADUATE STUDENTS						6,000
5. (0) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)						0
6. (0) OTHER						0
TOTAL SALARIES AND WAGES (A + B)						146,886
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)						32,801
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)						179,687
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)						
equipment item 1				\$	30,000	
TOTAL EQUIPMENT						30,000
E. TRAVEL						
1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS)						10,000
2. FOREIGN						3,000
F. PARTICIPANT SUPPORT COSTS						
1. STIPENDS \$ _____				0		
2. TRAVEL _____				0		
3. SUBSISTENCE _____				0		
4. OTHER _____				0		
(0) TOTAL PARTICIPANT COSTS						0
G. OTHER DIRECT COSTS						
1. MATERIALS AND SUPPLIES						15,000
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION						5,000
3. CONSULTANT SERVICES						12,000
4. COMPUTER SERVICES						0
5. SUBAWARDS						195,377
6. OTHER						8,325
TOTAL OTHER DIRECT COSTS						235,702
H. TOTAL DIRECT COSTS (A THROUGH G)						458,389
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)						
subawards (applied to \$25k of each) (Rate: 54.30, Base: 75000) (Cont. on Comments Page)						
TOTAL INDIRECT COSTS (F&A)						164,580
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)						622,969
K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS SEE GPG II.D.7.j.)						0
L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)						\$ 622,969 \$
M. COST SHARING PROPOSED LEVEL \$ 0				AGREED LEVEL IF DIFFERENT \$		
PI / PD TYPED NAME & SIGNATURE*			DATE	FOR NSF USE ONLY		
Edward D Lipson				INDIRECT COST RATE VERIFICATION		
ORG. REP. TYPED NAME & SIGNATURE*			DATE	Date Checked	Date Of Rate Sheet	Initials - ORG

SUMMARY PROPOSAL BUDGET COMMENTS - Year 1

Other Senior Personnel

Name - Title	Cal	Acad	Sumr	Funds Requested	
-----	----	-----	-----	-----	
Warner, David J - NPAC Senior Scientist	2.00		0.00	0.00	10000

**** C- Fringe Benefits**

17.1%(A1+A2)+35.3%(A3+B1+B2)+10.9%(B3)+6.9%(B4)

**** E-2 Foreign Travel**

Kuwait collaboration

**** G-6 Other**

tuition (\$555/cr hr)

**** I- Indirect Costs**

Comments go here

TDC-tuition-equipment-subawards (Rate: 54.30, Base 228095)

SUMMARY PROPOSAL BUDGET

YEAR 2

ORGANIZATION Syracuse University				FOR NSF USE ONLY			
				PROPOSAL NO.	DURATION (months)		
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR Edward D Lipson				AWARD NO.	Proposed	Granted	
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				NSF Funded Person-mos.		Funds Requested By proposer	Funds granted by NSF (if different)
	CAL	ACAD	SUMR				
1. Edward D Lipson - Professor	0.00	0.00	2.00	\$ 17,448			
2. Geoffrey C Fox - Professor	0.00	0.00	0.00	0			
3. Corinna E Lathan - none	0.00	0.00	0.00	0			
4. Gregg C Vanderheiden - none	0.00	0.00	0.00	0			
5. Erik Viirre - none	0.00	0.00	0.00	0			
6. (1) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)	2.00	0.00	0.00	10,400			
7. (6) TOTAL SENIOR PERSONNEL (1 - 6)	2.00	0.00	2.00	27,848			
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)							
1. (1) POST DOCTORAL ASSOCIATES	12.00	0.00	0.00	36,400			
2. (1) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)	24.00	0.00	0.00	36,400			
3. (3) GRADUATE STUDENTS				45,874			
4. (2) UNDERGRADUATE STUDENTS				6,240			
5. (0) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)				0			
6. (0) OTHER				0			
TOTAL SALARIES AND WAGES (A + B)				152,762			
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)				32,801			
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)				185,563			
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)							
equipment item 1				\$ 30,000			
TOTAL EQUIPMENT				30,000			
E. TRAVEL							
1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS)				10,000			
2. FOREIGN				3,000			
F. PARTICIPANT SUPPORT COSTS							
1. STIPENDS \$ _____				0			
2. TRAVEL _____				0			
3. SUBSISTENCE _____				0			
4. OTHER _____				0			
(0) TOTAL PARTICIPANT COSTS				0			
G. OTHER DIRECT COSTS							
1. MATERIALS AND SUPPLIES				15,000			
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION				5,000			
3. CONSULTANT SERVICES				12,480			
4. COMPUTER SERVICES				0			
5. SUBAWARDS				196,887			
6. OTHER				8,745			
TOTAL OTHER DIRECT COSTS				238,112			
H. TOTAL DIRECT COSTS (A THROUGH G)				466,675			
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)							
(Rate: 0.00, Base: 0) (Cont. on Comments Page)							
TOTAL INDIRECT COSTS (F&A)				126,298			
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)				592,973			
K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS SEE GPG II.D.7.j.)				0			
L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)				\$ 592,973			
M. COST SHARING PROPOSED LEVEL \$ 0				AGREED LEVEL IF DIFFERENT \$			
PI / PD TYPED NAME & SIGNATURE*			DATE	FOR NSF USE ONLY			
Edward D Lipson				INDIRECT COST RATE VERIFICATION			
ORG. REP. TYPED NAME & SIGNATURE*			DATE	Date Checked	Date Of Rate Sheet	Initials - ORG	

SUMMARY PROPOSAL BUDGET COMMENTS - Year 2

Other Senior Personnel

Name - Title -----	Cal ----	Acad -----	Sumr -----	Funds Requested -----
Warner, David J - NPAC Senior Scientist	2.00		0.00	0.00 10400

**** C- Fringe Benefits**

17.1%(A1+A2)+35.3%(A3+B1+B2)+10.9%(B3)+6.9%(B4)

**** E-2 Foreign Travel**

Kuwait collaboration

**** G-6 Other**

tuition (\$583/cr hr)

**** I- Indirect Costs**

Comments go here

TDC-tuition-equipment-subawards (Rate: 54.30, Base 232594)

SUMMARY PROPOSAL BUDGET

YEAR 3

ORGANIZATION Syracuse University				FOR NSF USE ONLY			
				PROPOSAL NO.	DURATION (months)		
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR Edward D Lipson				AWARD NO.	Proposed	Granted	
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				NSF Funded Person-mos.		Funds Requested By proposer	Funds granted by NSF (if different)
	CAL	ACAD	SUMR				
1. Edward D Lipson - Professor	0.00	0.00	2.00	\$ 18,146			
2. Geoffrey C Fox - Professor	0.00	0.00	0.00	0			
3. Corinna E Lathan - none	0.00	0.00	0.00	0			
4. Gregg C Vanderheiden - none	0.00	0.00	0.00	0			
5. Erik Viirre - none	0.00	0.00	0.00	0			
6. (1) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)	2.00	0.00	0.00	10,816			
7. (6) TOTAL SENIOR PERSONNEL (1 - 6)	2.00	0.00	2.00	28,962			
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)							
1. (1) POST DOCTORAL ASSOCIATES	12.00	0.00	0.00	37,856			
2. (1) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)	24.00	0.00	0.00	37,856			
3. (3) GRADUATE STUDENTS				47,709			
4. (2) UNDERGRADUATE STUDENTS				6,490			
5. (0) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)				0			
6. (0) OTHER				0			
TOTAL SALARIES AND WAGES (A + B)				158,873			
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)				32,801			
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)				191,674			
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)							
equipment item 1				\$ 30,000			
TOTAL EQUIPMENT				30,000			
E. TRAVEL							
1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS)				10,000			
2. FOREIGN				3,000			
F. PARTICIPANT SUPPORT COSTS							
1. STIPENDS \$ _____				0			
2. TRAVEL _____				0			
3. SUBSISTENCE _____				0			
4. OTHER _____				0			
(0) TOTAL PARTICIPANT COSTS				0			
G. OTHER DIRECT COSTS							
1. MATERIALS AND SUPPLIES				15,000			
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION				5,000			
3. CONSULTANT SERVICES				12,979			
4. COMPUTER SERVICES				0			
5. SUBAWARDS				204,055			
6. OTHER				8,325			
TOTAL OTHER DIRECT COSTS				245,359			
H. TOTAL DIRECT COSTS (A THROUGH G)				480,033			
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)							
(Rate: 0.00, Base: 0) (Cont. on Comments Page)							
TOTAL INDIRECT COSTS (F&A)				130,236			
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)				610,269			
K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS SEE GPG II.D.7.j.)				0			
L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)				\$ 610,269			
M. COST SHARING PROPOSED LEVEL \$ 0				AGREED LEVEL IF DIFFERENT \$			
PI / PD TYPED NAME & SIGNATURE*			DATE	FOR NSF USE ONLY			
Edward D Lipson				INDIRECT COST RATE VERIFICATION			
ORG. REP. TYPED NAME & SIGNATURE*			DATE	Date Checked	Date Of Rate Sheet	Initials - ORG	

SUMMARY PROPOSAL BUDGET COMMENTS - Year 3

Other Senior Personnel

Name - Title	Cal	Acad	Sumr	Funds Requested
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Warner, David J - NPAC Senior Scientist	2.00		0.00	0.00 10816

**** C- Fringe Benefits**

17.1%(A1+A2)+35.3%(A3+B1+B2)+10.9%(B3)+6.9%(B4)

**** E-2 Foreign Travel**

Kuwait collaboration

**** G-6 Other**

tuition (\$612/cr hr)

**** I- Indirect Costs**

Comments go here

TDC-tuition-equipment-subawards (Rate: 54.30, Base 239847)

SUMMARY PROPOSAL BUDGET Cumulative

ORGANIZATION Syracuse University				FOR NSF USE ONLY			
				PROPOSAL NO.	DURATION (months)		
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR Edward D Lipson				AWARD NO.	Proposed	Granted	
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				NSF Funded Person-mos.		Funds Requested By proposer	Funds granted by NSF (if different)
	CAL	ACAD	SUMR				
1. Edward D Lipson - Professor	0.00	0.00	6.00	\$	52,371	\$	
2. Geoffrey C Fox - Professor	0.00	0.00	0.00		0		
3. Corinna E Lathan - none	0.00	0.00	0.00		0		
4. Gregg C Vanderheiden - none	0.00	0.00	0.00		0		
5. Erik Viirre - none	0.00	0.00	0.00		0		
6. (1) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)	6.00	0.00	0.00		31,216		
7. (6) TOTAL SENIOR PERSONNEL (1 - 6)	6.00	0.00	6.00		83,587		
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)							
1. (3) POST DOCTORAL ASSOCIATES	36.00	0.00	0.00		109,256		
2. (3) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)	72.00	0.00	0.00		109,256		
3. (9) GRADUATE STUDENTS					137,691		
4. (6) UNDERGRADUATE STUDENTS					18,730		
5. (0) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)					0		
6. (0) OTHER					0		
TOTAL SALARIES AND WAGES (A + B)					458,520		
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)					98,403		
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)					556,923		
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)							
			\$	90,000			
TOTAL EQUIPMENT					90,000		
E. TRAVEL					30,000		
1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS)							
2. FOREIGN					9,000		
F. PARTICIPANT SUPPORT COSTS							
1. STIPENDS	\$		0				
2. TRAVEL			0				
3. SUBSISTENCE			0				
4. OTHER			0				
(0) TOTAL PARTICIPANT COSTS					0		
G. OTHER DIRECT COSTS							
1. MATERIALS AND SUPPLIES					45,000		
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION					15,000		
3. CONSULTANT SERVICES					37,459		
4. COMPUTER SERVICES					0		
5. SUBAWARDS					596,319		
6. OTHER					25,395		
TOTAL OTHER DIRECT COSTS					719,173		
H. TOTAL DIRECT COSTS (A THROUGH G)					1,405,096		
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)							
TOTAL INDIRECT COSTS (F&A)					421,116		
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)					1,826,212		
K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS SEE GPG II.D.7.j.)					0		
L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)					\$ 1,826,212	\$	
M. COST SHARING PROPOSED LEVEL \$				0	AGREED LEVEL IF DIFFERENT \$		
PI / PD TYPED NAME & SIGNATURE*			DATE	FOR NSF USE ONLY			
Edward D Lipson				INDIRECT COST RATE VERIFICATION			
ORG. REP. TYPED NAME & SIGNATURE*			DATE	Date Checked	Date Of Rate Sheet	Initials - ORG	

SUMMARY PROPOSAL BUDGET YEAR 1

ORGANIZATION Catholic University of America				FOR NSF USE ONLY		
				PROPOSAL NO.	DURATION (months)	
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR Corinna E Lathan				AWARD NO.	Proposed	Granted
					NSF Funded Person-mos.	
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				CAL	ACAD	SUMR
1. Corinna E Lathan - Ph.D.				0.00	0.00	0.60
2.						
3.						
4.						
5.						
6. (0) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)				0.00	0.00	0.00
7. (1) TOTAL SENIOR PERSONNEL (1 - 6)				0.00	0.00	0.60
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)						
1. (0) POST DOCTORAL ASSOCIATES				0.00	0.00	0.00
2. (0) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)				0.00	0.00	0.00
3. (1) GRADUATE STUDENTS						16,000
4. (0) UNDERGRADUATE STUDENTS						0
5. (0) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)						0
6. (0) OTHER						0
TOTAL SALARIES AND WAGES (A + B)						19,500
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)						1,917
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)						21,417
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)						
equipment item 1				\$		0
TOTAL EQUIPMENT						0
E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS)						3,000
2. FOREIGN						0
F. PARTICIPANT SUPPORT COSTS						
1. STIPENDS \$ _____				0		
2. TRAVEL _____				0		
3. SUBSISTENCE _____				0		
4. OTHER _____				0		
(0) TOTAL PARTICIPANT COSTS						0
G. OTHER DIRECT COSTS						
1. MATERIALS AND SUPPLIES						3,500
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION						0
3. CONSULTANT SERVICES						0
4. COMPUTER SERVICES						0
5. SUBAWARDS						0
6. OTHER						0
TOTAL OTHER DIRECT COSTS						3,500
H. TOTAL DIRECT COSTS (A THROUGH G)						27,917
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)						
62% on salaries only (Rate: 62.00, Base: 19500)						
TOTAL INDIRECT COSTS (F&A)						12,090
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)						40,007
K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS SEE GPG II.D.7.j.)						0
L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)				\$	40,007	\$
M. COST SHARING PROPOSED LEVEL \$ 17,000				AGREED LEVEL IF DIFFERENT \$		
PI / PD TYPED NAME & SIGNATURE*			DATE	FOR NSF USE ONLY		
Corinna E Lathan				INDIRECT COST RATE VERIFICATION		
ORG. REP. TYPED NAME & SIGNATURE*			DATE	Date Checked	Date Of Rate Sheet	Initials - ORG

SUMMARY PROPOSAL BUDGET COMMENTS - Year 1

SUMMARY PROPOSAL BUDGET YEAR 2

ORGANIZATION Catholic University of America				FOR NSF USE ONLY			
				PROPOSAL NO.	DURATION (months)		
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR Corinna E Lathan				AWARD NO.	Proposed	Granted	
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				NSF Funded Person-mos.		Funds Requested By proposer	Funds granted by NSF (if different)
	CAL	ACAD	SUMR				
1. Corinna E Lathan - Ph.D.	0.00	0.00	0.60	\$ 4,000			
2.							
3.							
4.							
5.							
6. (0) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)	0.00	0.00	0.00	0			
7. (1) TOTAL SENIOR PERSONNEL (1 - 6)	0.00	0.00	0.60	4,000			
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)							
1. (0) POST DOCTORAL ASSOCIATES	0.00	0.00	0.00	0			
2. (0) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)	0.00	0.00	0.00	0			
3. (1) GRADUATE STUDENTS				16,000			
4. (0) UNDERGRADUATE STUDENTS				0			
5. (0) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)				0			
6. (0) OTHER				0			
TOTAL SALARIES AND WAGES (A + B)				20,000			
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)				2,016			
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)				22,016			
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)							
equipment item 1				\$ 0			
TOTAL EQUIPMENT				0			
E. TRAVEL				3,000			
1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS)							
2. FOREIGN				0			
F. PARTICIPANT SUPPORT COSTS							
1. STIPENDS \$ _____				0			
2. TRAVEL _____				0			
3. SUBSISTENCE _____				0			
4. OTHER _____				0			
(0) TOTAL PARTICIPANT COSTS				0			
G. OTHER DIRECT COSTS							
1. MATERIALS AND SUPPLIES				3,500			
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION				0			
3. CONSULTANT SERVICES				0			
4. COMPUTER SERVICES				0			
5. SUBAWARDS				0			
6. OTHER				0			
TOTAL OTHER DIRECT COSTS				3,500			
H. TOTAL DIRECT COSTS (A THROUGH G)				28,516			
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)							
62% on salaries only (Rate: 62.00, Base: 20000)							
TOTAL INDIRECT COSTS (F&A)				12,400			
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)				40,916			
K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS SEE GPG II.D.7.j.)				0			
L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)				\$ 40,916	\$		
M. COST SHARING PROPOSED LEVEL \$ 17,000				AGREED LEVEL IF DIFFERENT \$			
PI / PD TYPED NAME & SIGNATURE*			DATE	FOR NSF USE ONLY			
Corinna E Lathan				INDIRECT COST RATE VERIFICATION			
ORG. REP. TYPED NAME & SIGNATURE*			DATE	Date Checked	Date Of Rate Sheet	Initials - ORG	

SUMMARY PROPOSAL BUDGET YEAR 3

ORGANIZATION Catholic University of America				FOR NSF USE ONLY			
				PROPOSAL NO.	DURATION (months)		
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR Corinna E Lathan				AWARD NO.	Proposed	Granted	
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				NSF Funded Person-mos.		Funds Requested By proposer	Funds granted by NSF (if different)
	CAL	ACAD	SUMR				
1. Corinna E Lathan - Ph.D.	0.00	0.00	0.60	\$ 4,500			
2.							
3.							
4.							
5.							
6. (0) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)	0.00	0.00	0.00	0			
7. (1) TOTAL SENIOR PERSONNEL (1 - 6)	0.00	0.00	0.60	4,500			
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)							
1. (0) POST DOCTORAL ASSOCIATES	0.00	0.00	0.00	0			
2. (0) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)	0.00	0.00	0.00	0			
3. (1) GRADUATE STUDENTS				16,000			
4. (0) UNDERGRADUATE STUDENTS				0			
5. (0) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)				0			
6. (0) OTHER				0			
TOTAL SALARIES AND WAGES (A + B)				20,500			
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)				2,115			
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)				22,615			
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)							
equipment item 1				\$ 0			
TOTAL EQUIPMENT				0			
E. TRAVEL				3,000			
1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS)							
2. FOREIGN				0			
F. PARTICIPANT SUPPORT COSTS							
1. STIPENDS \$ _____				0			
2. TRAVEL _____				0			
3. SUBSISTENCE _____				0			
4. OTHER _____				0			
(0) TOTAL PARTICIPANT COSTS				0			
G. OTHER DIRECT COSTS							
1. MATERIALS AND SUPPLIES				3,500			
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION				0			
3. CONSULTANT SERVICES				0			
4. COMPUTER SERVICES				0			
5. SUBAWARDS				0			
6. OTHER				0			
TOTAL OTHER DIRECT COSTS				3,500			
H. TOTAL DIRECT COSTS (A THROUGH G)				29,115			
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)							
62% on salaries only (Rate: 62.00, Base: 20500)							
TOTAL INDIRECT COSTS (F&A)				12,710			
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)				41,825			
K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS SEE GPG II.D.7.j.)				0			
L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)				\$ 41,825			
M. COST SHARING PROPOSED LEVEL \$ 17,000				AGREED LEVEL IF DIFFERENT \$			
PI / PD TYPED NAME & SIGNATURE*			DATE	FOR NSF USE ONLY			
Corinna E Lathan				INDIRECT COST RATE VERIFICATION			
ORG. REP. TYPED NAME & SIGNATURE*			DATE	Date Checked	Date Of Rate Sheet	Initials - ORG	

SUMMARY PROPOSAL BUDGET Cumulative

ORGANIZATION Catholic University of America				FOR NSF USE ONLY			
				PROPOSAL NO.	DURATION (months)		
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR Corinna E Lathan				AWARD NO.	Proposed	Granted	
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				NSF Funded Person-mos.		Funds Requested By proposer	Funds granted by NSF (if different)
	CAL	ACAD	SUMR				
1. Corinna E Lathan - Ph.D.	0.00	0.00	1.80	\$ 12,000			
2.							
3.							
4.							
5.							
6. () OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)	0.00	0.00	0.00	0			
7. (1) TOTAL SENIOR PERSONNEL (1 - 6)	0.00	0.00	1.80	12,000			
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)							
1. (0) POST DOCTORAL ASSOCIATES	0.00	0.00	0.00	0			
2. (0) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)	0.00	0.00	0.00	0			
3. (3) GRADUATE STUDENTS				48,000			
4. (0) UNDERGRADUATE STUDENTS				0			
5. (0) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)				0			
6. (0) OTHER				0			
TOTAL SALARIES AND WAGES (A + B)				60,000			
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)				6,048			
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)				66,048			
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)				\$ 0			
TOTAL EQUIPMENT				0			
E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS)				9,000			
2. FOREIGN				0			
F. PARTICIPANT SUPPORT COSTS							
1. STIPENDS \$ _____				0			
2. TRAVEL _____				0			
3. SUBSISTENCE _____				0			
4. OTHER _____				0			
(0) TOTAL PARTICIPANT COSTS				0			
G. OTHER DIRECT COSTS							
1. MATERIALS AND SUPPLIES				10,500			
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION				0			
3. CONSULTANT SERVICES				0			
4. COMPUTER SERVICES				0			
5. SUBAWARDS				0			
6. OTHER				0			
TOTAL OTHER DIRECT COSTS				10,500			
H. TOTAL DIRECT COSTS (A THROUGH G)				85,548			
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)							
TOTAL INDIRECT COSTS (F&A)				37,200			
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)				122,748			
K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS SEE GPG II.D.7.j.)				0			
L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)				\$ 122,748			
M. COST SHARING PROPOSED LEVEL \$ 51,000				AGREED LEVEL IF DIFFERENT \$			
PI / PD TYPED NAME & SIGNATURE*			DATE	FOR NSF USE ONLY			
Corinna E Lathan				INDIRECT COST RATE VERIFICATION			
ORG. REP. TYPED NAME & SIGNATURE*			DATE	Date Checked	Date Of Rate Sheet	Initials - ORG	

SUMMARY PROPOSAL BUDGET YEAR 1

ORGANIZATION University of Washington				FOR NSF USE ONLY			
				PROPOSAL NO.	DURATION (months)		
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR Erik S Viirre				AWARD NO.	Proposed	Granted	
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				NSF Funded Person-mos.		Funds Requested By proposer	Funds granted by NSF (if different)
	CAL	ACAD	SUMR				
1. Erik S Viirre - M.D. Ph.D.	3.00	0.00	0.00	\$ 22,063			
2.							
3.							
4.							
5.							
6. (0) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)	0.00	0.00	0.00	0			
7. (1) TOTAL SENIOR PERSONNEL (1 - 6)	3.00	0.00	0.00	22,063			
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)							
1. (0) POST DOCTORAL ASSOCIATES	0.00	0.00	0.00	0			
2. (0) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)	0.00	0.00	0.00	0			
3. (0) GRADUATE STUDENTS				0			
4. (0) UNDERGRADUATE STUDENTS				0			
5. (0) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)				0			
6. (0) OTHER				0			
TOTAL SALARIES AND WAGES (A + B)				22,063			
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)				4,859			
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)				26,922			
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)							
PC Workstation with Video Capture card				\$ 5,000			
TOTAL EQUIPMENT				5,000			
E. TRAVEL				2,500			
1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS)							
2. FOREIGN				0			
F. PARTICIPANT SUPPORT COSTS							
1. STIPENDS \$ _____				0			
2. TRAVEL _____				0			
3. SUBSISTENCE _____				0			
4. OTHER _____				0			
(0) TOTAL PARTICIPANT COSTS				0			
G. OTHER DIRECT COSTS							
1. MATERIALS AND SUPPLIES				4,000			
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION				0			
3. CONSULTANT SERVICES				0			
4. COMPUTER SERVICES				0			
5. SUBAWARDS				0			
6. OTHER				0			
TOTAL OTHER DIRECT COSTS				4,000			
H. TOTAL DIRECT COSTS (A THROUGH G)				38,422			
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)							
Salary and Benefits (Rate: 51.00, Base: 26922) (Cont. on Comments Page)							
TOTAL INDIRECT COSTS (F&A)				17,045			
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)				55,467			
K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS SEE GPG II.D.7.j.)				0			
L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)				\$ 55,467			
M. COST SHARING PROPOSED LEVEL \$ 0				AGREED LEVEL IF DIFFERENT \$			
PI / PD TYPED NAME & SIGNATURE*			DATE	FOR NSF USE ONLY			
Erik S Viirre				INDIRECT COST RATE VERIFICATION			
ORG. REP. TYPED NAME & SIGNATURE*			DATE	Date Checked	Date Of Rate Sheet	Initials - ORG	

SUMMARY PROPOSAL BUDGET COMMENTS - Year 1

**** I- Indirect Costs**

Travel and Other Direct (Rate: 51.00, Base 6500)

Comments go here

SUMMARY PROPOSAL BUDGET YEAR 2

ORGANIZATION University of Washington				FOR NSF USE ONLY			
				PROPOSAL NO.	DURATION (months)		
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR Erik S Viirre				AWARD NO.	Proposed	Granted	
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				NSF Funded Person-mos.		Funds Requested By proposer	Funds granted by NSF (if different)
	CAL	ACAD	SUMR				
1. Erik S Viirre - M.D. Ph.D.	3.00	0.00	0.00	\$ 22,945			
2.							
3.							
4.							
5.							
6. (0) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)	0.00	0.00	0.00	0			
7. (1) TOTAL SENIOR PERSONNEL (1 - 6)	3.00	0.00	0.00	22,945			
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)							
1. (0) POST DOCTORAL ASSOCIATES	0.00	0.00	0.00	0			
2. (0) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)	0.00	0.00	0.00	0			
3. (0) GRADUATE STUDENTS				0			
4. (0) UNDERGRADUATE STUDENTS				0			
5. (0) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)				0			
6. (0) OTHER				0			
TOTAL SALARIES AND WAGES (A + B)				22,945			
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)				4,949			
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)				27,894			
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)							
			\$ 0				
TOTAL EQUIPMENT				0			
E. TRAVEL				2,500			
1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS)							
2. FOREIGN				0			
F. PARTICIPANT SUPPORT COSTS							
1. STIPENDS \$ _____			0				
2. TRAVEL _____			0				
3. SUBSISTENCE _____			0				
4. OTHER _____			0				
(0) TOTAL PARTICIPANT COSTS				0			
G. OTHER DIRECT COSTS							
1. MATERIALS AND SUPPLIES				4,000			
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION				0			
3. CONSULTANT SERVICES				0			
4. COMPUTER SERVICES				0			
5. SUBAWARDS				0			
6. OTHER				0			
TOTAL OTHER DIRECT COSTS				4,000			
H. TOTAL DIRECT COSTS (A THROUGH G)				34,394			
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)							
Salary and Benefits (Rate: 51.00, Base: 27894) (Cont. on Comments Page)							
TOTAL INDIRECT COSTS (F&A)				17,540			
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)				51,934			
K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS SEE GPG II.D.7.j.)				0			
L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)				\$ 51,934			
M. COST SHARING PROPOSED LEVEL \$ 0				AGREED LEVEL IF DIFFERENT \$			
PI / PD TYPED NAME & SIGNATURE*			DATE	FOR NSF USE ONLY			
Erik S Viirre				INDIRECT COST RATE VERIFICATION			
ORG. REP. TYPED NAME & SIGNATURE*			DATE	Date Checked	Date Of Rate Sheet	Initials - ORG	

SUMMARY PROPOSAL BUDGET

YEAR 3

ORGANIZATION University of Washington				FOR NSF USE ONLY			
				PROPOSAL NO.	DURATION (months)		
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR Erik S Viirre				AWARD NO.	Proposed	Granted	
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				NSF Funded Person-mos.		Funds Requested By proposer	Funds granted by NSF (if different)
	CAL	ACAD	SUMR				
1. Erik S Viirre - M.D. Ph.D.	3.00	0.00	0.00	\$ 23,863			
2.							
3.							
4.							
5.							
6. (0) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)	0.00	0.00	0.00	0			
7. (1) TOTAL SENIOR PERSONNEL (1 - 6)	3.00	0.00	0.00	23,863			
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)							
1. (0) POST DOCTORAL ASSOCIATES	0.00	0.00	0.00	0			
2. (0) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)	0.00	0.00	0.00	0			
3. (0) GRADUATE STUDENTS				0			
4. (0) UNDERGRADUATE STUDENTS				0			
5. (0) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)				0			
6. (0) OTHER				0			
TOTAL SALARIES AND WAGES (A + B)				23,863			
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)				5,250			
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)				29,113			
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)							
			\$ 0				
TOTAL EQUIPMENT				0			
E. TRAVEL				2,500			
1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS)							
2. FOREIGN				0			
F. PARTICIPANT SUPPORT COSTS							
1. STIPENDS \$ _____			0				
2. TRAVEL _____			0				
3. SUBSISTENCE _____			0				
4. OTHER _____			0				
(0) TOTAL PARTICIPANT COSTS				0			
G. OTHER DIRECT COSTS							
1. MATERIALS AND SUPPLIES				4,000			
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION				0			
3. CONSULTANT SERVICES				0			
4. COMPUTER SERVICES				0			
5. SUBAWARDS				0			
6. OTHER				0			
TOTAL OTHER DIRECT COSTS				4,000			
H. TOTAL DIRECT COSTS (A THROUGH G)				35,613			
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)							
Salary and Benefits (Rate: 52.00, Base: 29113) (Cont. on Comments Page)							
TOTAL INDIRECT COSTS (F&A)				18,518			
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)				54,131			
K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS SEE GPG II.D.7.j.)				0			
L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)				\$ 54,131			
M. COST SHARING PROPOSED LEVEL \$ 0				AGREED LEVEL IF DIFFERENT \$			
PI / PD TYPED NAME & SIGNATURE*			DATE	FOR NSF USE ONLY			
Erik S Viirre				INDIRECT COST RATE VERIFICATION			
ORG. REP. TYPED NAME & SIGNATURE*			DATE	Date Checked	Date Of Rate Sheet	Initials - ORG	

SUMMARY PROPOSAL BUDGET COMMENTS - Year 3

**** I- Indirect Costs**

Travel and Other Direct (Rate: 52.00, Base 6500)

Comments go here

SUMMARY PROPOSAL BUDGET Cumulative

ORGANIZATION University of Washington				FOR NSF USE ONLY			
				PROPOSAL NO.	DURATION (months)		
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR Erik S Viirre				AWARD NO.			
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				NSF Funded Person-mos.		Funds Requested By proposer	Funds granted by NSF (if different)
				CAL	ACAD	SUMR	
1. Erik S Viirre - M.D. Ph.D.				9.00	0.00	0.00	\$ 68,871
2.							
3.							
4.							
5.							
6. () OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)				0.00	0.00	0.00	0
7. (1) TOTAL SENIOR PERSONNEL (1 - 6)				9.00	0.00	0.00	68,871
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)							
1. (0) POST DOCTORAL ASSOCIATES				0.00	0.00	0.00	0
2. (0) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)				0.00	0.00	0.00	0
3. (0) GRADUATE STUDENTS							0
4. (0) UNDERGRADUATE STUDENTS							0
5. (0) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)							0
6. (0) OTHER							0
TOTAL SALARIES AND WAGES (A + B)							68,871
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)							15,058
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)							83,929
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)							
				\$	5,000		
TOTAL EQUIPMENT							5,000
E. TRAVEL							7,500
1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS)							7,500
2. FOREIGN							0
F. PARTICIPANT SUPPORT COSTS							
1. STIPENDS \$ _____				0			
2. TRAVEL _____				0			
3. SUBSISTENCE _____				0			
4. OTHER _____				0			
(0) TOTAL PARTICIPANT COSTS							0
G. OTHER DIRECT COSTS							
1. MATERIALS AND SUPPLIES							12,000
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION							0
3. CONSULTANT SERVICES							0
4. COMPUTER SERVICES							0
5. SUBAWARDS							0
6. OTHER							0
TOTAL OTHER DIRECT COSTS							12,000
H. TOTAL DIRECT COSTS (A THROUGH G)							108,429
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)							
TOTAL INDIRECT COSTS (F&A)							53,104
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)							161,533
K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS SEE GPG II.D.7.j.)							0
L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)							\$ 161,533
M. COST SHARING PROPOSED LEVEL \$ 0				AGREED LEVEL IF DIFFERENT \$			
PI / PD TYPED NAME & SIGNATURE*			DATE	FOR NSF USE ONLY			
Erik S Viirre				INDIRECT COST RATE VERIFICATION			
ORG. REP. TYPED NAME & SIGNATURE*			DATE	Date Checked	Date Of Rate Sheet	Initials - ORG	

Budget Justification Page

Budget Justification

HITL Sub Contract

Dr. Viirre is an expert on eye movement measurement technology and research from the University of Washington, Human Interface Technology Laboratory. He will consult with the I Cubed developers on construction of an eye movement hardware and software interface for Neat Tools.

Equipment. A portable PC computer with 200 MHZ Pentium II processor with a National Instruments Video Processing Card will be required. This will be the platform that the Neat Tools eyetracking interface will be developed on. Portability will allow this system to be brought to Syracuse where the development team can work with it and to the sites for users with disabilities

Travel. Dr. Viirre will need to travel to Syracuse twice a year in order to work directly with the developers and technologists for the eye tracker interface development.

Supplies. A variety of CCD Cameras will be required for testing with the Neat Tools interface to determine useability. Some software will be necessary including the National Instruments video processor support and the development environments. Other video capture cards and software interfaces will be tested for compatibility and expense.

SUMMARY PROPOSAL BUDGET YEAR 1

ORGANIZATION University of Wisconsin-Madison				FOR NSF USE ONLY			
				PROPOSAL NO.	DURATION (months)		
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR Gregg C Vanderheiden				AWARD NO.	Proposed	Granted	
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				NSF Funded Person-mos.		Funds Requested By proposer	Funds granted by NSF (if different)
		CAL	ACAD	SUMR			
1.	Gregg C Vanderheiden - Ph.D.	1.00	0.00	0.00	\$ 11,674	\$	
2.							
3.							
4.							
5.							
6.	(0) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)	0.00	0.00	0.00	0		
7.	(1) TOTAL SENIOR PERSONNEL (1 - 6)	1.00	0.00	0.00	11,674		
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)							
1.	(0) POST DOCTORAL ASSOCIATES	0.00	0.00	0.00	0		
2.	(3) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)	3.60	0.00	0.00	11,452		
3.	(1) GRADUATE STUDENTS				10,421		
4.	(1) UNDERGRADUATE STUDENTS				685		
5.	(1) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)				3,163		
6.	(0) OTHER				0		
TOTAL SALARIES AND WAGES (A + B)					37,395		
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)					10,362		
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)					47,757		
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)							
	equipment item 1			\$ 0			
TOTAL EQUIPMENT					0		
E. TRAVEL					4,000		
1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS)							
2. FOREIGN					0		
F. PARTICIPANT SUPPORT COSTS							
1.	STIPENDS \$ _____			0			
2.	TRAVEL _____			0			
3.	SUBSISTENCE _____			0			
4.	OTHER _____			0			
(0) TOTAL PARTICIPANT COSTS					0		
G. OTHER DIRECT COSTS							
1.	MATERIALS AND SUPPLIES				5,450		
2.	PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION				2,950		
3.	CONSULTANT SERVICES				13,500		
4.	COMPUTER SERVICES				0		
5.	SUBAWARDS				0		
6.	OTHER				7,832		
TOTAL OTHER DIRECT COSTS					29,732		
H. TOTAL DIRECT COSTS (A THROUGH G)					81,489		
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)							
First Indirect Cost Item (Rate: 25.00, Base: 73657)							
TOTAL INDIRECT COSTS (F&A)					18,414		
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)					99,903		
K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS SEE GPG II.D.7.j.)					0		
L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)					\$ 99,903	\$	
M. COST SHARING PROPOSED LEVEL \$ 0				AGREED LEVEL IF DIFFERENT \$			
PI / PD TYPED NAME & SIGNATURE*			DATE	FOR NSF USE ONLY			
Gregg C Vanderheiden				INDIRECT COST RATE VERIFICATION			
ORG. REP. TYPED NAME & SIGNATURE*			DATE	Date Checked	Date Of Rate Sheet	Initials - ORG	

SUMMARY PROPOSAL BUDGET COMMENTS - Year 1

**** B-3 Graduate Students**

0.5

**** B-4 Undergraduate Students**

Aide to Blind Team member

**** B-5 Secretarial - Clerical**

10% total FTE

**** G-3 Consultant Services**

\$12,500 Consultant + \$1,000 Subject Fees

**** G-6 Other**

Space Rental & Network/Phone connection

SUMMARY PROPOSAL BUDGET

YEAR 2

ORGANIZATION University of Wisconsin-Madison				FOR NSF USE ONLY			
				PROPOSAL NO.	DURATION (months)		
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR Gregg C Vanderheiden				AWARD NO.	Proposed	Granted	
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				NSF Funded Person-mos.		Funds Requested By proposer	Funds granted by NSF (if different)
	CAL	ACAD	SUMR				
1. Gregg C Vanderheiden - Ph.D.	1.00	0.00	0.00	\$	12,141	\$	
2.							
3.							
4.							
5.							
6. (0) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)	0.00	0.00	0.00		0		
7. (1) TOTAL SENIOR PERSONNEL (1 - 6)	1.00	0.00	0.00		12,141		
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)							
1. (0) POST DOCTORAL ASSOCIATES	0.00	0.00	0.00		0		
2. (3) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)	3.60	0.00	0.00		12,534		
3. (1) GRADUATE STUDENTS					10,837		
4. (1) UNDERGRADUATE STUDENTS					712		
5. (1) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)					3,290		
6. (0) OTHER					0		
TOTAL SALARIES AND WAGES (A + B)					39,514		
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)					11,375		
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)					50,889		
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)							
equipment item 1				\$	0		
TOTAL EQUIPMENT					0		
E. TRAVEL					4,000		
1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS)							
2. FOREIGN					0		
F. PARTICIPANT SUPPORT COSTS							
1. STIPENDS	\$		0				
2. TRAVEL			0				
3. SUBSISTENCE			0				
4. OTHER			0				
(0) TOTAL PARTICIPANT COSTS					0		
G. OTHER DIRECT COSTS							
1. MATERIALS AND SUPPLIES					6,200		
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION					2,200		
3. CONSULTANT SERVICES					13,500		
4. COMPUTER SERVICES					0		
5. SUBAWARDS					0		
6. OTHER					8,050		
TOTAL OTHER DIRECT COSTS					29,950		
H. TOTAL DIRECT COSTS (A THROUGH G)					84,839		
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)							
First Indirect Cost Item (Rate: 25.00, Base: 76789)							
TOTAL INDIRECT COSTS (F&A)					19,197		
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)					104,036		
K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS SEE GPG II.D.7.j.)					0		
L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)				\$	104,036	\$	
M. COST SHARING PROPOSED LEVEL \$				0	AGREED LEVEL IF DIFFERENT \$		
PI / PD TYPED NAME & SIGNATURE*			DATE	FOR NSF USE ONLY			
Gregg C Vanderheiden				INDIRECT COST RATE VERIFICATION			
ORG. REP. TYPED NAME & SIGNATURE*			DATE	Date Checked	Date Of Rate Sheet	Initials - ORG	

SUMMARY PROPOSAL BUDGET COMMENTS - Year 2

**** B-3 Graduate Students**

0.5

**** B-4 Undergraduate Students**

Aide to Blind Team member

**** B-5 Secretarial - Clerical**

10% total FTE

**** G-3 Consultant Services**

\$12,500 Consultant + \$1,000 Subject Fees

**** G-6 Other**

Space Rental & Network/Phone connection

SUMMARY PROPOSAL BUDGET YEAR 3

ORGANIZATION University of Wisconsin-Madison				FOR NSF USE ONLY			
				PROPOSAL NO.	DURATION (months)		
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR Gregg C Vanderheiden				AWARD NO.	Proposed	Granted	
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				NSF Funded Person-mos.		Funds Requested By proposer	Funds granted by NSF (if different)
		CAL	ACAD	SUMR			
1.	Gregg C Vanderheiden - Ph.D.	1.00	0.00	0.00	\$ 12,500	\$	
2.							
3.							
4.							
5.							
6.	(0) OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)	0.00	0.00	0.00	0		
7.	(1) TOTAL SENIOR PERSONNEL (1 - 6)	1.00	0.00	0.00	12,500		
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)							
1.	(0) POST DOCTORAL ASSOCIATES	0.00	0.00	0.00	0		
2.	(3) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)	3.60	0.00	0.00	13,034		
3.	(1) GRADUATE STUDENTS				11,271		
4.	(1) UNDERGRADUATE STUDENTS				738		
5.	(1) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)				3,421		
6.	(0) OTHER				0		
TOTAL SALARIES AND WAGES (A + B)					40,964		
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)					12,195		
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)					53,159		
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)							
	equipment item 1			\$ 0			
TOTAL EQUIPMENT					0		
E. TRAVEL					5,500		
1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS)							
2. FOREIGN					0		
F. PARTICIPANT SUPPORT COSTS							
1.	STIPENDS \$ _____			0			
2.	TRAVEL _____			0			
3.	SUBSISTENCE _____			0			
4.	OTHER _____			0			
(0) TOTAL PARTICIPANT COSTS					0		
G. OTHER DIRECT COSTS							
1. MATERIALS AND SUPPLIES					6,200		
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION					3,600		
3. CONSULTANT SERVICES					13,900		
4. COMPUTER SERVICES					0		
5. SUBAWARDS					0		
6. OTHER					8,274		
TOTAL OTHER DIRECT COSTS					31,974		
H. TOTAL DIRECT COSTS (A THROUGH G)					90,633		
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)							
First Indirect Cost Item (Rate: 25.00, Base: 69859)							
TOTAL INDIRECT COSTS (F&A)					17,464		
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)					108,097		
K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS SEE GPG II.D.7.j.)					0		
L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)					\$ 108,097	\$	
M. COST SHARING PROPOSED LEVEL \$ 0				AGREED LEVEL IF DIFFERENT \$			
PI / PD TYPED NAME & SIGNATURE*			DATE	FOR NSF USE ONLY			
Gregg C Vanderheiden				INDIRECT COST RATE VERIFICATION			
ORG. REP. TYPED NAME & SIGNATURE*			DATE	Date Checked	Date Of Rate Sheet	Initials - ORG	

SUMMARY PROPOSAL BUDGET COMMENTS - Year 3

**** B-3 Graduate Students**

0.5

**** B-4 Undergraduate Students**

Aide to Blind Team member

**** B-5 Secretarial - Clerical**

10% total FTE

**** G-3 Consultant Services**

\$12,500 Consultant + \$1,400 Subject Fees

**** G-6 Other**

Space Rental & Network/Phone connection

**** I- Indirect Costs**

Consultant not subject to overhead this year (only first \$25,000)

SUMMARY PROPOSAL BUDGET Cumulative

ORGANIZATION University of Wisconsin-Madison				FOR NSF USE ONLY		
				PROPOSAL NO.	DURATION (months)	
PRINCIPAL INVESTIGATOR / PROJECT DIRECTOR Gregg C Vanderheiden				AWARD NO.		
				NSF Funded Person-mos.		
A. SENIOR PERSONNEL: PI/PD, Co-PI's, Faculty and Other Senior Associates (List each separately with title, A.7. show number in brackets)				CAL	ACAD	SUMR
1. Gregg C Vanderheiden - Ph.D.				3.00	0.00	0.00
2.						
3.						
4.						
5.						
6. () OTHERS (LIST INDIVIDUALLY ON BUDGET JUSTIFICATION PAGE)				0.00	0.00	0.00
7. (1) TOTAL SENIOR PERSONNEL (1 - 6)				3.00	0.00	0.00
B. OTHER PERSONNEL (SHOW NUMBERS IN BRACKETS)						
1. (0) POST DOCTORAL ASSOCIATES				0.00	0.00	0.00
2. (9) OTHER PROFESSIONALS (TECHNICIAN, PROGRAMMER, ETC.)				10.80	0.00	0.00
3. (3) GRADUATE STUDENTS						32,529
4. (3) UNDERGRADUATE STUDENTS						2,135
5. (3) SECRETARIAL - CLERICAL (IF CHARGED DIRECTLY)						9,874
6. (0) OTHER						0
TOTAL SALARIES AND WAGES (A + B)						117,873
C. FRINGE BENEFITS (IF CHARGED AS DIRECT COSTS)						33,932
TOTAL SALARIES, WAGES AND FRINGE BENEFITS (A + B + C)						151,805
D. EQUIPMENT (LIST ITEM AND DOLLAR AMOUNT FOR EACH ITEM EXCEEDING \$5,000.)				\$	0	
TOTAL EQUIPMENT						0
E. TRAVEL 1. DOMESTIC (INCL. CANADA AND U.S. POSSESSIONS)						13,500
2. FOREIGN						0
F. PARTICIPANT SUPPORT COSTS						
1. STIPENDS \$ _____				0		
2. TRAVEL _____				0		
3. SUBSISTENCE _____				0		
4. OTHER _____				0		
(0) TOTAL PARTICIPANT COSTS						0
G. OTHER DIRECT COSTS						
1. MATERIALS AND SUPPLIES						17,850
2. PUBLICATION COSTS/DOCUMENTATION/DISSEMINATION						8,750
3. CONSULTANT SERVICES						40,900
4. COMPUTER SERVICES						0
5. SUBAWARDS						0
6. OTHER						24,156
TOTAL OTHER DIRECT COSTS						91,656
H. TOTAL DIRECT COSTS (A THROUGH G)						256,961
I. INDIRECT COSTS (F&A)(SPECIFY RATE AND BASE)						
TOTAL INDIRECT COSTS (F&A)						55,076
J. TOTAL DIRECT AND INDIRECT COSTS (H + I)						312,037
K. RESIDUAL FUNDS (IF FOR FURTHER SUPPORT OF CURRENT PROJECTS SEE GPG II.D.7.j.)						0
L. AMOUNT OF THIS REQUEST (J) OR (J MINUS K)				\$	312,037	\$
M. COST SHARING PROPOSED LEVEL \$ 0				AGREED LEVEL IF DIFFERENT \$		
PI / PD TYPED NAME & SIGNATURE*			DATE	FOR NSF USE ONLY		
Gregg C Vanderheiden				INDIRECT COST RATE VERIFICATION		
ORG. REP. TYPED NAME & SIGNATURE*			DATE	Date Checked	Date Of Rate Sheet	Initials - ORG

Budget Justification

University of Wisconsin - Madison

Gregg C. Vanderheiden Ph.D. PI

Personnel

3 staff members, will each be spending 1.2 person months per year on this project
one an expert on Web and a co-author of the W3C Web Accessibility guidelines,

one an expert on blindness and the use of screen readers.

1 halftime graduate student involved in our design and human disability and aging program is budgeted to both

Center.

1 student who acts as an aide and reader for the staff member who is blind is budgeted for 5% of their time.

arrangements, transportation arrangements for subjects with disabilities and communications for the project.

Fringe

Fringe is at the standard rates negotiated by the University. Year 2 and 3 rates are estimates made by the

Travel

Two types of travel are budgeted. \$2,000 is budgeted for Staff Travel to a conference (2 people) to report and organizations. Travel costs are constant in year 2 but are raised in year 3 when we expect increased travel and increased travel costs.

Costs are based on similar projects and include computers, supplies, interface adaptations, electronic parts, publications, and voice synthesizer. Costs go up slightly in years 2 and 3 when we are making adaptations for

Publication, documentation, and dissemination

\$2,900 is budgeted in year 1 for this shipping costs. The costs are lower in year 2 during data collection but rise in year 3 with the dissemination of draft materials for review and printed final materials.

\$1,000 per year in years 1 and 2 and \$1,400 in year three are budgeted for subject fees paid to people who participate in the project. Subjects are paid \$7.00 per hour. In addition, transportation costs are covered for

Gilman, who acts as a virtual team member at

Gilman who is located in Arlington Va approx 60% for the Trace Center and the remainder is spent on the work of the W3C Web Accessibility Initiative where he chairs the formats and protocols

Gilman will devote 12% of his time or 1.44 months effort to the project.

The costs listed under Other for each year represent the cost for space rental and network and communication

cost distribution across grants as per Federal guidelines. Costs are based on actual rental costs for the three years plus an estimate of the communication costs for each year based on year one costs. Year one rental