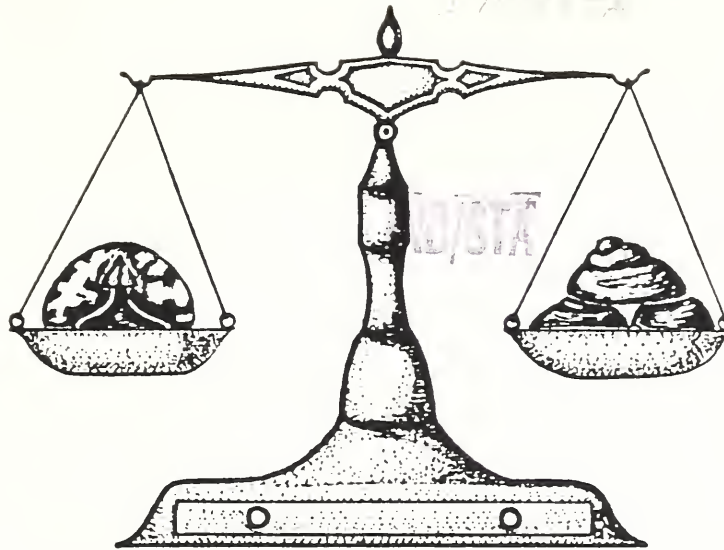


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# THE SCALE



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Vol. IX, No. 1

November 1983

## Note From the Editor

# 1204005

I must apologize for the change in title of this issue. Due to certain U. S. Department of Agriculture regulations, it has been necessary to alter the format and title of the "Coccidologist's Newsletter". I have decided to continue the volume numbers as if the name had not been changed. I am especially grateful to John A. Davidson, University of Maryland, for designing and drawing the earlier cover of the "Coccidologist's Newsletter" and the "letterhead" of "The Scale." I hope this does not cause too much inconvenience.

## News

Perhaps now, after talking to several of you at the meetings in Budapest, more people will consider writing a short note about their scale insect studies and experiences. As many of you may know, "The Scale" was intended to be a forum for news. Unfortunately, it has not served this role because most have chosen not to take the time to sit down and write a little recent news about themselves. Examples of the kinds of information appropriate for the "news" section are given in earlier newsletters and below.

1. From Dug Miller, Beltsville, Maryland, USDA. "This past summer my wife and I were fortunate enough to undertake some foreign travel. I first spent a week at the British Museum (Natural History) working on a paper with Douglas Williams. Unfortunately time was short, and I really did not have much opportunity to study material other than that appropriate for our paper. Needless to say, I was very impressed with the collection and would have enjoyed spending considerable more time looking at specimens. It was

pleasant to have time to talk with Douglas Williams and Jennifer Cox about research of mutual interest. They both are very knowledgeable and are extremely enthusiastic about scales. They made our stay in England most rewarding.

From London we traveled to Budapest where we stayed for five days and attended the "Fourth International Congress of Coccidology." The meetings were far more successful than I had expected. The organizers--Ferenc Kozar, Michael Kosztarab, Gizella Vinis, and Gizella Ordogh are to be congratulated for setting up such a highly informative and enjoyable set of meetings. They did everything possible to instill a friendly and highly interactive atmosphere, and it is my opinion that they were the most successful meetings to date. For me, it was especially useful to meet many people for the first time who I have corresponded with for years.

From Budapest Judy went home and I traveled to Shanghai where I studied with Professor Yang Ping-lan at the Shanghai Institute of Entomology, Academia Sinica. We are studying the status of the Matsucoccus species that are similar to M. matsumurae. We spent two full weeks looking at all available material and generated a mass of useful data. We intend to complete the research this summer when Prof. Yang visits Beltsville. Professor Yang was a most thoughtful and generous host.

From Shanghai I traveled to Hangzhou where I visited the Zhejiang Forestry Institute. Again, I was impressed with the work that is being done there. The methods for control of Matsucoccus are unbelievably labor intensive but are effective. For the last several days of my visit I was in Beijing talking with scientists at the Institute of Zoology, Academia Sinica. The hospitality again was overwhelming. I had the opportunity to look briefly at the scale insect collection and to discuss problems of mutual interest with the coccidologist at the Institute, Mr. Wang Zi Qing. In addition to Mr. Wang, I am grateful to Professors Chu Hung-fu, Chao Chien-Ming, and Xiong Yao, and to Mr. Pan Han for their extensive assistance while I was in Beijing. They made my visit there a most rewarding experience.

My Chinese experiences were quite memorable. I enjoyed every aspect of my stay and became so comfortable with chopsticks, that a knife, fork, and spoon were used somewhat hesitantly when I returned home. I was truly overwhelmed by the attention that I received while in China. There was some discussion about the possibility of holding the next International Meeting of Coccidology in Shanghai, but I guess this site will have to wait for meeting VI. It would be a very desirable place to hold a meeting.

The Fourth International Symposium of Scale Insect Studies (ISSIS-IV)

Michael Kosztarab

Department of Entomology, Virginia Polytechnic Institute  
and State University, Blacksburg, VA

The meeting was held at the Hungarian Academy of Sciences, in Budapest, between August 16 and 19, 1983 honoring Professor A. S. Balachowsky.

Dr. F. Kozar and I co-chaired the organizational committee of the meeting. It was the largest international gathering of coccidologists to date with about 40 participants from 16 countries. The program included 34 talks, two poster presentations, two round-table discussions, and a full day collecting trip to Kiskunsagi National Park in Central Hungary. The trip provided a break from the sessions, and some entertainment for the participants, as did the official symposium banquet in the Hotel Gellért and the two informal private parties.

During the round-table discussions and business meetings topics included the need for preparation of species catalogues, collection inventories, and standardization of Coccoidea morphological terms in English. Most of the participants volunteered to assist with filling of voids. An organizational committee was formed, to be co-chaired by Dr. E. Tremblay and Dr. A. Tranfaglia. They will organize ISSIS-V in Portici, Italy, during 1986, probably at the end of June. Please plan your participation now.

A more detailed summary of the two business meetings and round-table discussions will be printed in the Proceedings of ISSIS-IV. The volume includes the papers presented (about 150 pages) and will be mailed to the participants during 1984. If non-participants want copies of the Proceedings, they should contact Ferenc Kozar, Research Institute for Plant Protection, H-1525 Budapest Pf. 102, Herman O.u.15, Hungary, as soon as possible. These probably will be available for a fee if enough orders are received this fall.

## AUBURN UNIVERSITY COCCOIDEA COLLECTION

by Charles H. Ray, Jr., Michael L. Williams, and Ida E. Daniels

Department of Zoology-Entomology and

Agricultural Experiment Station

Auburn University, Alabama

The Auburn University Coccoidea Collection consists of approximately 15,000 slides and is housed in Funchess Hall on the Auburn University Campus. Inquiries about the collection should be made to: Dr. Michael L. Williams  
Department of Zoology-Entomology, Auburn University, AL 36849, Phone: (205) 826-4850

The collection was begun in 1973 by Dr. Williams. The bulk of the material has been prepared by personnel of the Department of Zoology-Entomology of Auburn University including the following individuals: Ida E. Daniels, Barbara J. Muse and Charles H. Ray, Jr. with the assistance of many student workers. Also housed at Auburn, but not included in this catalog, is the collection of R. F. Wilkey and a collection of Coccoidea from Ecuador and the Galapagos Islands. For each species the 3-digit number to the right refers to the number of slides in the collection, a 'P' indicates at least 1 Paratype, 'T' at least 1 Topotype, 'C' at least 1 Cotype, and an 'L' at least 1 slide labeled "part of lectotype material." The next series of letters indicates the stages that we have represented in our material. An 'A' represents adult female, 'B' third-stage female, 'C' second-stage female, 'D' first-stage female, 'E' adult male, 'F' pupal male, 'G' prepupal male, 'H' third-stage male, 'I' second-stage male, and 'J' first-stage male.

## ACLERDIDAE

Aclerda	andropogonis	McConnell	002P	AC
Aclerda	ariditas	Ferris	002T	AD
Aclerda	arizonica	McConnell	002P	AD
Aclerda	arundinariae	McConnell	059P	ADEF
Aclerda	attenuata	Ferris	002	AD
Aclerda	balachowskyi	McConnell	002P	AD
Aclerda	berlesii	Buffa	002	AD
Aclerda	californica	(Ehrhorn)	002T	AD
Aclerda	chiriquiensis	McConnell	002P	AD
Aclerda	chusqueae	McConnell	002P	AD
Aclerda	distorta	Green	001P	A
Aclerda	ferrisi	McConnell	002PA	D
Aclerda	holci	Teague	001	A
Aclerda	ischaemi	Ramakrishna	002L	AD

Aclerda	marylandica	McConnell	018P	ABCD
Aclerda	mexicana	McConnell	001	D
Aclerda	oaxacaensis	McConnell	001T	A
Aclerda	obscura	(Parrott)	002	A
Aclerda	pasquieri	Balachowsky	001	D
Aclerda	sacchari	Teague	001P	D
Aclerda	simplicis	McConnell	002P	AD
Aclerda	subterranea	Signoret	002	AD
Aclerda	takahashii	Kuwana	002	AD
Aclerda	texana	McConnell	027P	ADE
Aclerda	tokionis	(Cockerell)	002	AD
Aclerda	xalapenseae	McConnell	001P	A
Aclerda	sp.		001	
Rhodesaclerda	combreticola	McConnell	003P	AD
Rhodesaclerda	halli	McConnell	002TP	AD

## APIOMORPHIDAE

Apiomorpha	munita	(Schrader)	009	A
Apiomorpha	sp.		011	AD

## ASTEROLECANIIDAE

Asterolecanium	bambusae	Boisduval	017	AD
Asterolecanium	milaris	Boisduval	008	AD
Asterolecanium	minus	Lindinger	010	A
Asterolecanium	pustulans	(Cockerell)	021	ACD
Asterolecanium	puteanum	Russell	009	A
Asterolecanium	sp.		012	ACD
Eremococcus	pirogallis	(Maskell)	006	A

## BEESONIIDAE

Beesonia	dipterocarpi	Green	019	
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## CEROCOCCIDAE

Cerococcus	deklei	Kosz. & Vest	022	ACD
Cerococcus	kalmiae	Ferris	016	AG
Cerococcus	koebelei	(Cockerell)	002T	A
Cerococcus	parrotti	(Hunter)	009	ADE

## COCCIDAE

Akermes	bruneri	Cockerell	013	A
Alecanium	hirsutum	Morrison	007	ACD
Alichtensia	misiones	(Morrison)	008	AE
Alichtensia	orientalis	Lahille	010	ABD
Austrolichtensia	hakearum	(Fuller)	010	AD
Ceroplastes	ceriferus	(Fabricius)	097	ABD
Ceroplastes	cirripediformis	Comstock	054	ABC
Ceroplastes	floridensis	Comstock	084	ABCD
Ceroplastes	irregularis	Cockerell	031	A
Ceroplastes	japonica	Green	001	A
Ceroplastes	nakaharai	Gimpel	001	A
Ceroplastes	rubens	Maskell	005	AD

Ceroplastes	rusci	(Linnaeus)	002	A
Ceroplastes	sinensis	Del Guercio	019	AD
Ceroplastes	utilis	Cockerell	001	A
Ceroplastes	sp.		003	B
Ceroplastodes	acaciae	Cockerell	003	A
Ceroplastodes	cajani	(Maskell)	010	A
Ceroplastodes	chiton	Green	014	AD
Ceroplastodes	costa-limae	Bondar	005	A
Ceroplastodes	daleae	Cockerell	007	A
Ceroplastodes	deani	Lawson	005	A
Ceroplastodes	dugeseii	("Lich.", Sign.)	006	A
Ceroplastodes	melzeri	Bondar	003	A
Ceroplastodes	theobromae	Bondar	009	A
Coccus	acutissimus	(Green)	022	ABD
Coccus	aequale	(Newstead)	012	ABDFI
Coccus	bicruciatu	(Green)	009	AD
Coccus	capparidis	(Green)	026	ABCD
Coccus	caudatus	(Green)	006	AC
Coccus	caviramicolus	Morrison	005	A
Coccus	discrepans	(Green)	007	A
Coccus	hesperidum	Linnaeus	210	ABCD
Coccus	longulus	(Douglas)	057	ABCD
Coccus	pseudohesperidum	(Cockerell)	002	A
Coccus	pseudomagnoliarum	(Kuwana)	002	A
Coccus	viridis	(Green)	119	ABCDEFGFI
Cribolecanium	sp.		011	ABC
Cryptes	baccatus	(Maskell)	004	A
Cryptostigma	biorbiculus	Morrison	003	AD
Cryptostigma	quinquepori	(Newstead)	013	AB
Cryptostigma	secretus	(Morrison)	023	AB
Cryptostigma	sp.		001	A
Ctenochiton	aztecus	(Towns. & Ckll.)	047	ADI
Ctenochiton	viridis	Maskell	004	AD
Ctenochiton	sp.		024	ABDE
Cyclolecanium	hyperbaterum	Morrison	014	ABCD
Eriopeltis	coloradensis	Cockerell	008	A
Eriopeltis	festucae	(Fonscolombe)	019	ACDE
Eucalymnatus	tessellatus	(Signoret)	112	ABCD
Eulecanium	canadense	(Cockerell)	001	A
Eulecanium	caryae	(Fitch)	017	ACDEI
Eulecanium	cerasorum	(Cockerell)	061	ACD
Eulecanium	ciliatum	(Douglas)	001	A
Eulecanium	coryli	(Linnaeus)	005	ABCD
Eulecanium	excrescens	(Ferris)	003	A
Eulecanium	kunoensis	(Kuwana)	002	AB
Eulecanium	perinflatum	(Cockerell)	002	ABD
Filippia	sp.		001	A
Gascardia	destructor	(Newstead)	001	AB
Hemilecanium	imbricans	(Green)	013	AD
Inglisia	chelonioides	Green	006	A
Inglisia	vitrea	Cockerell	014	AD
Kilifia	acuminata	(Signoret)	138	ABCD
Kilifia	diversipes	(Cockerell)	009	AB
Kilifia	sp.		005	AB
Lecanium	sp.		136	AI
Lecanochiton	metrosideri	Maskell	008	A

Lichtensia	lutea	(Cockerell)	007	AB
Lichtensia	sp.		040	ABFI
Luzulaspis	frontalis	Green	001	A
Luzulaspis	luzulae	(Dufour)	004	AD
Luzulaspis	nemorosa	Koteja	001P	A
Mesolecanium	impar	(Cockerell)	006	A
Mesolecanium	nigrofasciatum	(Pergande)	111	ACDF
Mesolecanium	nocturnum	(Ckll. & Parr.)	014	A
Mesolecanium	phoradendri	(Cockerell)	005	CI
Mesolecanium	perditum	(Cockerell)	010	ACD
Mesolecanium	sp.		006	AD
Neolecanium	cornuparvum	(Thro)	218	ABCDEFGF
Neolecanium	craspeditae	Morrison	020	ABCD
Neolecanium	derameliae	Morrison	033	ABDI
Neolecanium	herrerae	Cockerell	010	AD
Neolecanium	perconvexum	(Cockerell)	035	ABCDI
Neolecanium	tuberculatum	(Town. & Ckll.)	055	ABCDI
Parafairmaria	sp.(undescribed)		015	ADF
Paralecanium	metallicum	(Green)	008	A
Parasaissetia	nigra	(Nietner)	069	ABCD
Parthenolecanium	corni	(Bouche)	194	ABCDEFGF
Parthenolecanium	persicae	(Fabricius)	036	ABC
Parthenolecanium	pruinatum	(Coquillett)	001	A
Parthenolecanium	quercifex	(Fitch)	002	A
Parthenolecanium	rufulum	(Cockerell)	001	
Pendularia	pendens	Fonseca	002	A
Philephedra	broadwayi	(Cockerell)	004	D
Physokermes	piceae	(Schrank)	003	A
Physokermes	sp.		002	CD
Platinglisia	noacki	Cockerell	004	A
Platylecanium	fusiformi	(Green)	003	CJ
Platysaissetia	castilloae	(Cockerell)	004	A
Platysaissetia	montrichardiae	Newstead	009	A
Protopulvinaria	longivalvata	(Green)	019	ABCD
Protopulvinaria	mangiferae	(Green)	119	ABCDI
Protopulvinaria	pyriformis	(Cockerell)	206	ABCD
Pseudophilippia	quaintancii	Cockerell	336	ABCDEFGFI
Pulvinaria	acericola	(Walsh & Riley)	102	ABCDEFGFI
Pulvinaria	amygdali	Cockerell	007	AB
Pulvinaria	bigeloviae	Cockerell	004	A
Pulvinaria	citricola	Kuwana	047	AD
Pulvinaria	delottoi	Gill	002P	A
Pulvinaria	elongata	Newstead	001	A
Pulvinaria	ericicola	McConnell	033	AB
Pulvinaria	floccifera	(Westwood)	050	ABCD
Pulvinaria	hydrangeae	Steinweden	003	A
Pulvinaria	innumerabilis	(Rathvon)	095	ACD
Pulvinaria	mammaeae	Maskell	002	A
Pulvinaria	mesembrianthemi	(Vallot)	005	A
Pulvinaria	occidentalis(nr.)		006	A
Pulvinaria	plucheae	Ehrhorn	007	AD
Pulvinaria	psidii	Maskell	083	ABCD
Pulvinaria	regalis		003	A
Pulvinaria	salicorniae	Froggatt	002	A
Pulvinaria	simulans	Cockerell	004	A
Pulvinaria	thespesiae	Green	002	DF

Pulvinaria	urbicola	Cockerell	060	ABCD
Pulvinaria	vitis	(Linnaeus)	012	A
Pulvinaria	sp. (undescribed)		015	ABCEFGI
Pulvinaria	sp.		048	
Saissetia	coffea	(Walker)	186	ABCD
Saissetia	miranda	(Ckll. & Parr.)	085	ABCD
Saissetia	neglecta	DeLotto	017	AC
Saissetia	oleae	(Olivier)	014	A
Schizochlamidia	mexicana	Ckll. & Parr.	011	ABCD
Sphaerolecanium	prunastri	Fonscolombe	008	ABC
Stictolecanium	sp.		008	AFG
Takahashia	japonica	(Cockerell)	007	A
Tectopulvinaria	loranthi	Froggatt	004	AD
Toumeyella	cerifera	Ferris	161	ABDEFGI
Toumeyella	corrugatum	(Thro)	012	BCDFI
Toumeyella	liriodendri	(Gmelin)	207	ABCDEF
Toumeyella	mirabilis	(Cockerell)	056	ABCDFI
Toumeyella	nectandra	Hempel	001	A
Toumeyella	parvicornis	(Cockerell)	582	ABCDEF
Toumeyella	paulista	Hempel	001C	A
Toumeyella	pini	(King)	158	ABCDEF
Toumeyella	pinicola	Ferris	016	ABE
Toumeyella	quadrafasciata	(Cockerell)	007	A
Toumeyella	sonorensis	(Ckll. & Parr.)	018	A
Toumeyella	turgida	(Cockerell)	007T	A
Toumeyella	virginiana	Wms. & Kosz.	260	ABCDEF
Toumeyella	sp. (undescribed)		007	A
Toumeyella	sp.		466	ABCDEF
Vinsonia	stellifera	(Westwood)	006	A
Unidentified Coccidae			081	

## CONCHASPIDIDAE

Conchaspis	angraeci	Cockerell	055	ACDE
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## DACTYLOPIIDAE

Dactylopius	ceylonicus	Green	017	AEFG
Dactylopius	confusus	Cockerell	032	ACD
Dactylopius	opuntiae	(Cockerell)	001	A
Dactylopius	tomentosus	Lamarck	001	AC

## DIASPIDIDAE

Abgrallaspis	comstocki	(Johnson)	014	ACDEF
Abgrallaspis	cyanophylli	(Signoret)	081	ACDEF
Abgrallaspis	degeneratus	(Leonardi)	001	A
Abgrallaspis	ithacae	(Ferris)	002	AF
Abgrallaspis	townsendi	(Cockerell)	019	AC
Abgrallaspis	sp.		007	ACI
Acutaspis	morrisonorum	Kosztarab	026	AC
Acutaspis	perseae	(Comstock)	025	ACF
Aonidia	atlantica	Ferris	001	A
Aonidia	shastae	(Coleman)	001	A
Aonidiella	aurantii	(Maskell)	003	A
Aonidiella	orientalis	(Newstead)	010	ACD

Aonidiella	taxus	Leonardi	044	ACDG
Aonidomytilus	brachystegiae	(Hall)	019	ACE
Aonidomytilus	ceanothi	(Ferris)	003	ACG
Aonidomytilus	concolor	(Cockerell)	023T	A
Aonidomytilus	crookiae	(Ferris)	040	ACDEF
Aonidomytilus	espinosai	(Porter)	012	A
Aonidomytilus	hyperici	Ferris	074	ACDEFI
Aonidomytilus	multiglandulatus	Kosztarab	007	AC
Aonidomytilus	solidaginis	(Hoke)	317	ACDEFG
Aonidomytilus	sp.		001	
Aspidiella	sacchari	(Cockerell)	026	ACDFI
Aspidiotus	cryptomeriae	Kuwana	021	ACF
Aspidiotus	destructor	Signoret	066	ACDEFGJ
Aspidiotus	hederae	(Vallot)	001	A
Aspidiotus	nerii	Bouche	045	ACDFGI
Aspidiotus	spinosus	Comstock	017	ACI
Aspidiotus	sp.		011	AC
Aulacaspis	rosae	(Bouche)	003	A
Carulaspis	juniperi	(Bouche)	036	ACDEI
Carulaspis	minima	(Targ.-Tozz.)	028	AC
Carulaspis	visci	(Schrank)	001	A
Chionaspis	americana	Johnson	021	ACD
Chionaspis	furfura	(Fitch)	003	A
Chionaspis	gleditsiae	Sanders	001	A
Chionaspis	heterophyllae	Cooley	084	ACD
Chionaspis	nr.lintneri		006	AF
Chionaspis	longiloba	Cooley	018	ACD
Chionaspis	nyssae	Comstock	088	ACEFGI
Chionaspis	pinifoliae	(Fitch)	153	AC
Chionaspis	salicisnigrae	(Walsh)	023	AC
Chortinaspis	divaricata	Ferris	001	A
Chortinaspis	subchortina	(Laing)	007	AC
Chrysomphalus	aonidium	(Linnaeus)	112	AC
Chrysomphalus	bifasciculatus	Ferris	002	A
Chrysomphalus	dictyospermi	(Morgan)	005	A
Chrysomphalus	ficus	Ashmead	001	A
Circulaspis	fistulella	Ferris	001	A
Clavaspis	herculeana	(Doane & Hadden)	015	AC
Comstockiella	sabalis	(Comstock)	077	ACDFGI
Cupidaspis	beshearae	Howell & Tippins	003P	A
Diaspidiotus	ancylus	(Putnam)	107	ACDF
Diaspidiotus	coniferarum	(Cockerell)	037	ACD
Diaspidiotus	cryptus	Cockerell	012	ADEF
Diaspidiotus	crystallinus	Ferris	004	A
Diaspidiotus	ehrhorni	(Coleman)	001	A
Diaspidiotus	hunteri	(Newell)	015	AC
Diaspidiotus	liquidambaris	(Kotinsky)	037	AC
Diaspidiotus	mccombi	McKenzie	023	ACD
Diaspidiotus	osborni	(Newell & Ckll.)	031	ACE
Diaspidiotus	uvae	(Comstock)	001	A
Diaspidiotus	sp.		007	A
Diaspis	boisduvalii	Signoret	077	ACDEFGI
Diaspis	echinocacti	(Bouche)	035	ACD
Diaspis	manzanitae	(Whitney)	022	ACDE
Diaspis	sp.(undescribed)		009	ACFI
Duplaspidiotus	clavigera	(Cockerell)	006	A

Dynaspidiotus	brittannicus	(Newstead)	004	A
Fiorinia	externa	Ferris	005	AC
Fiorinia	fioriniae	(Targ.-Tozz.)	045	ACD
Fiorinia	japonica	(Kuwana)	001	A
Fiorinia	pinicola	Maskell	001	A
Fiorinia	theae	Green	038	ACD
Furchadiaspis	zamia	(Morgan)	001	A
Gymnaspis	aechmeae	Newstead	011	ACDGI
Haliaspis	spartinae	(Comstock)	094	ACDFGI
Haliaspis	nakaharai	Howell	003P	A
Hemiberlesia	diffinis	(Newstead)	015	AC
Hemiberlesia	lataniae	(Signoret)	136	ACDF
Hemiberlesia	rapax	(Comstock)	018	ACD
Howardia	biclavis	(Comstock)	013	A
Ischnaspis	longirostris	(Signoret)	022	ACDF
Kuwanaspis	hikosani	(Kuwana)	001	C
Kuwanaspis	howardi	(Cooley)	001	A
Kuwanaspis	pseudaulacaspis	(Kuwana)	001	A
Lepidosaphes	beckii	(Newman)	037	ACFI
Lepidosaphes	camelliae	Hoke	058	ACDEFG
Lepidosaphes	gloverii	(Packard)	019	AC
Lepidosaphes	pallida	(Maskell)	023	ACDEG
Lepidosaphes	ulmi	(Linnaeus)	065	AC
Lepidosaphes	sp.		003	
Lineaspis	cupressi	(Coleman)	011	ACD
Lopholeucaspis	japonica	(Cockerell)	021	A
Melanaspis	latipyga	Ferris	003	A
Melanaspis	nigropunctata	(Cockerell)	006	AD
Melanaspis	obscura	(Comstock)	028	ACI
Melanaspis	smilacis	(Comstock)	018	A
Melanaspis	tenebricosa	(Comstock)	037	AEF
Melanaspis	sp.		009	
Neopinnaspis	harperi	McKenzie	014	A
Niveaspis	ilicis	(Hoke)	001	
Nuculaspis	californica	(Coleman)	068	ACDE
Nuculaspis	sp.		002	A
Odonaspis	bambusarum	(Cockerell)	001	A
Odonaspis	litorosa	Ferris	038	ACD
Odonaspis	minima	Howell & Tippins	002P	A
Odonaspis	penicillata	Green	001	C
Odonaspis	ruthae	Kotinsky	020	AC
Odonaspis	secreta	(Cockerell)	001	A
Parlatoria	camelliae	Comstock	011	A
Parlatoria	pergandii	Comstock	040	ACDF
Parlatoria	proteus	(Curtis)	022	AC
Parlatoria	theae	Cockerell	001	A
Pinnaspis	aspidistrae	(Signoret)	056	ACF
Pinnaspis	strachani	(Cooley)	046	ACD
Protodiaspis	didymus	McK. & Nel.-Rees	001	A
Pseudaonidia	duplex	(Cockerell)	022	A
Pseudaonidia	paeoniae	(Cockerell)	015	A
Pseudaulacaspis	cockerelli	(Cooley)	043	A
Pseudaulacaspis	major	(Cockerell)	009	A
Pseudaulacaspis	pentagona	(Targ.-Tozz.)	112	ACDEFGI
Pseudoparlatoria	ostreata	Cockerell	006	ACF
Pseudoparlatoria	parlatorioides	(Comstock)	001	C

Pseudoparlatoria	serrulata	Townsend & Ckll.	010	A
Pseudoparlatoria	tillandsiae	Tippins	001	A
Pseudoparlatoria	sp.		005	AE
Quadraspidiotus	forbesi	(Johnson)	043	ACDEFGI
Quadraspidiotus	juglansregiae	(Comstock)	079	ACDFGI
Quadraspidiotus	perniciosus	(Comstock)	086	ACDGI
Quadraspidiotus	taxodii	Ferris	004	AC
Quernaspis	insularis	Howell	005P	A
Quernaspis	quercus	(Comstock)	001	A
Rhizaspidiotus	dearnessi	(Cockerell)	022	ACDEF
Targionia	yuccarum	(Cockerell)	001	A
Unaspis	citri	(Comstock)	011	A
Unaspis	euonymi	(Comstock)	058	ACEF
Unaspis	sp.		002	A
Velataspis	dentata	(Hoke)	052	ACDEF
Unidentified Diaspididae			040	

## ERIOCOCCIDAE

Eriococcus	araucariae	Maskell	007	ADF
Eriococcus	azaleae	Comstock	030	AD
Eriococcus	euphorbiae	Ferris	001	A
Eriococcus	kemptoni	Parrott	015	ACDEG
Eriococcus	quercus	(Comstock)	020	AD
Eriococcus	smithii	Lobdell	007	A
Eriococcus	sp.		011	ABDEF
Gossyparia	spuria	(Modeer)	001	A
Greenisca	sp.		021	A
Hypericococcus	hyperici	(Ferris)	011	AD
Oregmopyga	sp.		018	AD
Ovaticoccus	agavium	(Douglas)	008	AD
Ovaticoccus	sp.		010	A
Tectococcus	ovatus	Hempel	003	A
Unidentified Eriococcidae			001	

## HALIMOCOCCIDAE

Halimococcus	thebaicae	Hall	002	AD
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## KERMESIDAE

Kermes	emoryi	Ferris	014	AD
Kermes	sp.		105	ABD

## KERRIIDAE

Tachardiella	fulgens	(Cockerell)	001	A
Unidentified Kerriidae			002	

## LECANODIASPIDIDAE

Lecanodiaspis	murphyi	Lambdin	001P	A
Lecanodiaspis	prosopidis	(Maskell)	065	A
Lecanodiaspis	sp.		004	A

## MARGARODIDAE

Aspidoproctus	mirabilis	(Cockerell)	016	AD
Crypticerya	rosae	(Riley & Howard)	001	A
Desmococcus	sedentarius	McKenzie	030	AC
Dimargarodes	meridionalis	(Morrison)	005	AF
Dimargarodes	sp.		006	A
Eumargarodes	laingi	Jakubski	007	A
Icerya	aegyptiaca	(Douglas)	001	A
Icerya	purchasi	Maskell	045	AD
Icerya	seychellarum	(Westwood)	001	A
Icerya	zeteki	Cockerell	001	
Llaveiella	taenechina	Morrison	002	
Margarodes	polonicus	Linnaeus	012	A
Margarodes	vitium	Giard	003	A
Matsucoccus	acalyptus	Herbert	161	A
Matsucoccus	alabamae	Morrison	209	ACDEFH
Matsucoccus	bisetosus	Morrison	125	ACD
Matsucoccus	californicus	Morrison	109	ACDEH
Matsucoccus	degeneratus	Morrison	004	AC
Matsucoccus	eduli	Morrison	131	ACDEF
Matsucoccus	fasciculensis	Herbert	154	ACDH
Matsucoccus	feytaudi	Ducasse	002	AE
Matsucoccus	gallicolus	Morrison	548	ACDH
Matsucoccus	liaoningensis	Tang	001	A
Matsucoccus	matsumurae	(Kuwana)	017	ACDF
Matsucoccus	monophyllae	McKenzie	019	ACDH
Matsucoccus	paucicicatrices	Morrison	099	ACDH
Matsucoccus	resinosae	Bean & Godwin	086	ACDFHI
Matsucoccus	secretus	Morrison	137	ACDEH
Matsucoccus	sinensis	Chen	003	AC
Matsucoccus	vexillorum	Morrison	431P	ACDH
Matsucoccus	sp.(undescribed)		050	A
Matsucoccus	sp.(undescribed)		117	ACDHI
Matsucoccus	sp.		194	
Mimosicerya	hempeli	(Newstead)	001T	
Monophlebus	ficus	Laing	001	C
Neosteingelia	texana	Morrison	042	ACDFH
Palaeococcus	plucheae	(Cockerell)	004	A
Pityococcus	ferrisi	McKenzie	116	ACDH
Pityococcus	sp.		005	AC
Steatococcus	hellenicus	(Gennadius)	003	A
Steatococcus	morrilli	(Cockerell)	041	AD
Steatococcus	townsendi	(Cockerell)	069	ADE
Steingelia	gorodetskia	Nassanow	002	E
Stomacoccus	capsulatus	Ferris	043	ACDH
Stomacoccus	platani	Ferris	078	ACEFGH
Ultracoelostoma	assimile	Maskell	001	A
Walkeriana	digitifrons	Newstead	004	AD
Xylococculus	alni	(Florence)	019	CDF
Xylococculus	macrocarpae	(Coleman)	031	BD
Xylococculus	napiformis	Kuwana	004	
Unidentified Margarodidae			015	

## ORTHEZIIDAE

Arctorthezia	occidentalis	Douglas	001	
Newsteadia	minima	Morrison	014	A
Nipponorthezia	obscura	Morrison	005	A
Orthezia	annae	Cockerell	029	AD
Orthezia	graminicola	Morrison	003	A
Orthezia	insignis	Browns	010	A
Orthezia	pseudinsignis	Morrison	001	A
Orthezia	tillandsiae	Morrison	023	AD
Orthezia	sp.		001	
Unidentified Ortheziidae			001	

## PHENACOLEACHIIDAE

Phenacoleachia	zealandica	(Maskell)	007	AD
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## PHOENICOCOCCIDAE

Phoenicococcus	marlatti	(Cockerell)	004	ACDF
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## PSEUDOCOCCIDAE

Antonina	graminis	(Maskell)	055	ABCD
Antonina	nortoni	Parrott	001	A
Antonina	pretiosa	Ferris	001	A
Antoninoides	parrotti	(Cockerell)	001	A
Chorizococcus	rostellum	(Hoke)	065	ABCDI
Chorizococcus	shaferi	(Hollinger)	005	A
Discococcus	flabellatus	Ferris	001	A
Distichlicoccus	megacirculus	McKenzie	043	ADE
Dysmicoccus	boninsis	(Kuwana)	035	AE
Dysmicoccus	brevipes	(Cockerell)	009	A
Dysmicoccus	diodium	(McConnell)	001	A
Dysmicoccus	lasii	(Cockerell)	001	A
Dysmicoccus	morrisoni	(Hollinger)	007	AD
Dysmicoccus	obesus	(Lobdell)	021	AD
Dysmicoccus	sp.(on pine)		032	A
Dysmicoccus	sp.		006	A
Eurycoccus	jessica	(Hollinger)	008	A
Ferrisia	floridana	Ferris	004	A
Ferrisia	virgata	(Cockerell)	054	AD
Hypogeococcus	sp.(undescribed)		035	AD
Nipaecoccus	nipae	(Maskell)	008	AD
Oracella	acuta	(Lobdell)	032	AE
Paradoxococcus	mcdanieli	McKenzie	007	A
Phenacoccus	gossypii	Townsend & Ckll.	045	A
Phenacoccus	multisetosus	McKenzie	003	A
Phenacoccus	solani	Ferris	019	AD
Phenacoccus	solenopsis	Tinsley	023	AD
Phenacoccus	nr. multisetosus		004	A
Phenacoccus	nr.solani		026	A
Phenacoccus	sp.		013	A
Planococcus	citri	(Risso)	174	ABDEFG
Pseudantonina	giganticoxa	Hoke	001	A
Pseudantonina	sp.		001	A

Pseudococcus	comstocki	(Kuwana)	003	A
Pseudococcus	longispinus	(Targ.-Tozz.)	024	A
Pseudococcus	maritimus	(Ehrhorn)	032	A
Pseudococcus	obscurus	Essig	016	A
Pseudococcus	sorghiiellus	(Forbes)	062	AD
Pseudococcus	sp.		007	A
Radicoccus	kelloggi	(Ehrhorn & Ckll.)	001	A
Rhizoecus	americanus	(Hambleton)	017	A
Rhizoecus	floridanus	Hambleton	004	A
Rhizoecus	mexicanus	(Hambleton)	007	A
Rhizoecus	palestinae	(Hambleton)	004	A
Rhizoecus	spinipes	(Hambleton)	008	A
Rhizoecus	subcyperalis	Hambleton	001	A
Rhizoecus	sp.		017	A
Spilococcus	gutierreziae	(Cockerell)	011	AD
Spilococcus	parkeri	McKenzie	028	AEF
Spilococcus	steelii	(Ckll. & Town.)	001	A
Symococcus	spirapuncta	Lobdell	016	AD
Trionymus	caricis	McConnell	014	AD
Trionymus	smithii	(Essig)	001	A
Trionymus	utahensis	(Cockerell)	002	A
Trionymus	sp.		002	A
Unidentified Pseudococcidae			063	
Stictococcidae				
Stictococcus	sjostedti	Cockerell	001	A

## RECENT LITERATURE

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I wish to express special appreciation to Mrs. Helen Proctor for her diligent typing and arranging of this long list of publications. The following publications are those received since the newsletter was sent out in May 1982. The list also includes references gathered from a "current awareness" computerized literature search provided by the U.S. Department of Agriculture. If you are aware of papers published in 1982-1983 that are not included in this issue or the previous one, please let me know. Please continue to send reprints of your papers for assurance of inclusion in the newsletter. Publications marked by an asterisk are those that have been examined.

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